Drinking Water Surveillance Program

METRO TORONTO (EASTERLY) WATER TREATMENT PLANT

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METRO TORONTO (EASTERLY) WATER TREATMENT PLANT

DRINKING WATER SURVEILLANCE PROGRAM

ANNUAL REPORT 1988

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EXECUTIVE SUMMARY

DRINKING WATER SURVEILLANCE PROGRAM

METRO TORONTO (EASTERLY) WATER TREATMENT PLANT
1988 ANNUAL REPORT

The Drinking Water Surveillance Program (DWSP) for Ontario is a program providing immediate, reliable, current information on drinking water quality. The DWSP officially began in April 1986 and is designed to eventually include all municipal supplies in Ontario. Currently, 52 plants are being monitored.

The Metro Toronto (Easterly) Water Treatment Plant is a direct filtration plant that treats water from Lake Ontario. The process consists of coagulation, flocculation, filtration, disinfection and fluoridation. This plant has a design capacity of 550 x 1000m3/day and in conjunction with the R.C. Harris and R.L. Clark plants, serves a population of approximately 2,333,000 people.

Water samples from the raw, treated and two distribution system sites were taken on a monthly basis. Sampling at Site 1 was discontinued in June and a new site was sampled starting in November. Parameters were divided into the following groups: Bacteriological, Inorganic and Physical (Laboratory Chemistry, Field Chemistry and Metals) and Organic (Chloroaromatics, Chlorophenols, Pesticides and PCB, Phenolics, Polynuclear Aromatic Hydrocarbons, Specific Pesticides and Volatiles). Specific Pesticides and Chlorophenols were analysed in June and November only.

A summary of results is shown in Table 1.

Inorganic and Physical parameters were below any applicable health related ODWOs.

Of a total of approximately 110 Organic parameters tested for on a monthly basis, none exceeded health related guidelines.

During 1988 the DWSP sampling results indicated that the Easterly Water Treatment Plant produced good quality water at the plant and this quality was maintained in the distribution system.

TABLE 1

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP)

SUMMARY TABLE BY SCAN

	RAW			TREATED			SITE 1			SITE 2			SITE 3		
SCAN	TESTS	POSITIVE	%POSITIVE	TESTS	POSITIVE	%POSITIVE	TESTS	POSITIVE	%POSITIVE	TESTS	POSITIVE	%POSITIVE	TESTS	POSITIVE	%POSITIVE
BACTERIOLOGICAL	44	37	84	44	7	15	24	6	25	6	1	16	38	6	15
CHEMISTRY (FLD)	36	36	100	63	63	100	62	62	100	21	21	100	102	102	100
CHEMISTRY (LAB)	246	190	77	245	183	74	210	191	90	74	62	83	357	308	86
METALS	288	151	52	288	147	51	282	157	55	94	50	53	471	264	56
CHLOROAROMATICS	154	0	0	168	0	0	84	0	0	28	0	0	154	0	0
CHLOROPHENOLS	12	0	0	12	0	0	.	.	.	.	.	.	.	.	.
PAH	204	0	0	204	0	0	.	.	.	.	.	.	.	.	.
PESTICIDES & PCB	375	0	0	396	0	0	192	0	0	68	0	0	349	0	0
PHENOLICS	12	1	8	12	3	25	.	.	.	.	.	.	.	.	.
SPECIFIC PESTICIDES	56	0	0	56	0	0	0	0	0	0	0	0	0	0	0
VOLATILES	316	6	1	315	47	14	144	21	14	58	8	13	258	38	14
TOTAL	1743	421		1803	450		998	437		349	142		1729	718	

NO HEALTH RELATED GUIDELINES WERE EXCEEDED

A POSITIVE VALUE DENOTES THAT THE · IS GREATER THAN THE STATISTICAL LIMIT OF DETECTION AND IS QUANTIFIABLE

INDICATES THAT NO SAMPLE WAS TAKEN

DRINKING WATER SURVEILLANCE PROGRAM

METRO TORONTO (EASTERLY) WATER TREATMENT PLANT
1988 ANNUAL REPORT

INTRODUCTION

The Drinking Water Surveillance Program (DWSP) for Ontario is a monitoring program providing immediate, reliable, current information on drinking water quality. The DWSP officially began in April 1986 and is designed to eventually include all municipal supplies in Ontario. Currently, 52 plants are being monitored.

The DWSP was initiated at the Metro Toronto (Easterly) Water Treatment Plant in July of 1986. An annual report was published for 1986 (ISBN 0-7729-2553-4) and 1987 (ISSN 0840-5166).

This report contains information and results for 1988.

PLANT DESCRIPTION

The Easterly Water Treatment Plant is a direct filtration plant which treats water from Lake Ontario. The process consists of coagulation, flocculation, filtration, disinfection and fluoridation. Superchlorination is used for disinfection and for taste and odour control. Sulphur dioxide is used as a dechlorinator and ammoniation is used to produce a long-lasting chloramine residual in the distribution system. This plant has a rated capacity of 550 x 1000m3/day and daily flows ranging from 190 x 1000m3/day to 544 x 1000m3/day. The Easterly Water Treatment

Plant in conjunction with the R. C. Harris and R. L. Clark plants (and the Toronto Island plant during the summer months) serves a population of approximately 2,333,000 people.

The plant location is shown in Figure 1. Plant process details, in a block schematic, are shown in Figure 2. General plant information is presented in Table 2.

METHODS

Water samples were obtained from four DWSP approved locations;

i) Plant Raw - The water originated from the raw water discharge header and was sampled through a copper sample line. The sample tap is located at the raw water discharge header. Two hours before sampling time pre-chlorination is interrupted to ensure a chlorine-free water sample.

ii) Plant Treated - The water originated from the treated suction channel after addition of all treatment chemicals and was sampled through a copper sample line. The sample tap is located in the treated water suction channel.

iii) Distribution System - Site One - This house is approximately 1.5 kilometers from the plant. Water was sampled through copper plumbing from the basement laundry tap. Sampling at this site was discontinued in June.

FIGURE 1

DRINKING WATER SURVEILLANCE PROGRAM

SITE LOCATION MAP

EASTERLY WATER TREATMENT PLANT

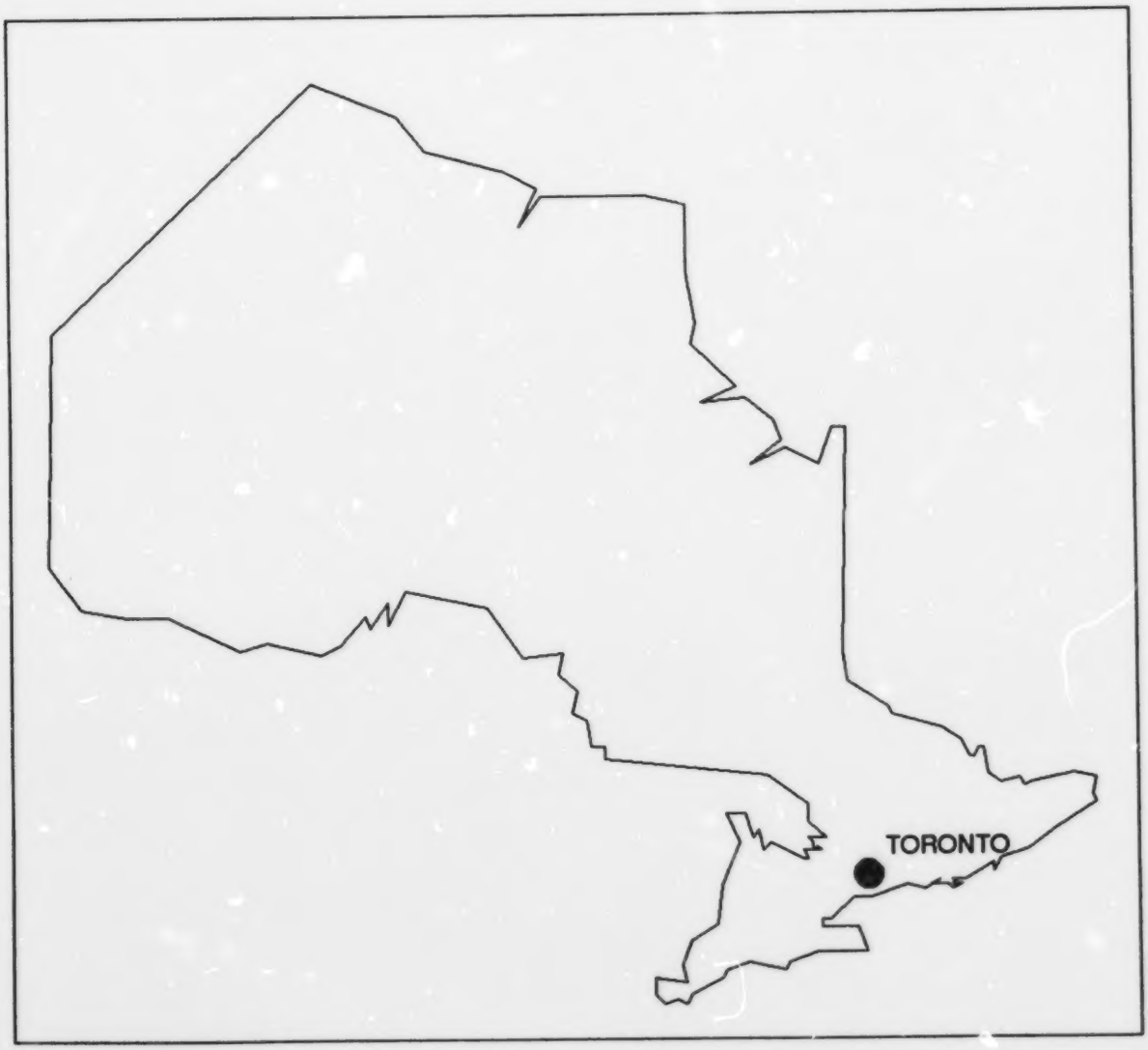

Figure 2

METRO TORONTO (EASTERLY) WATER TREATMENT PLANT

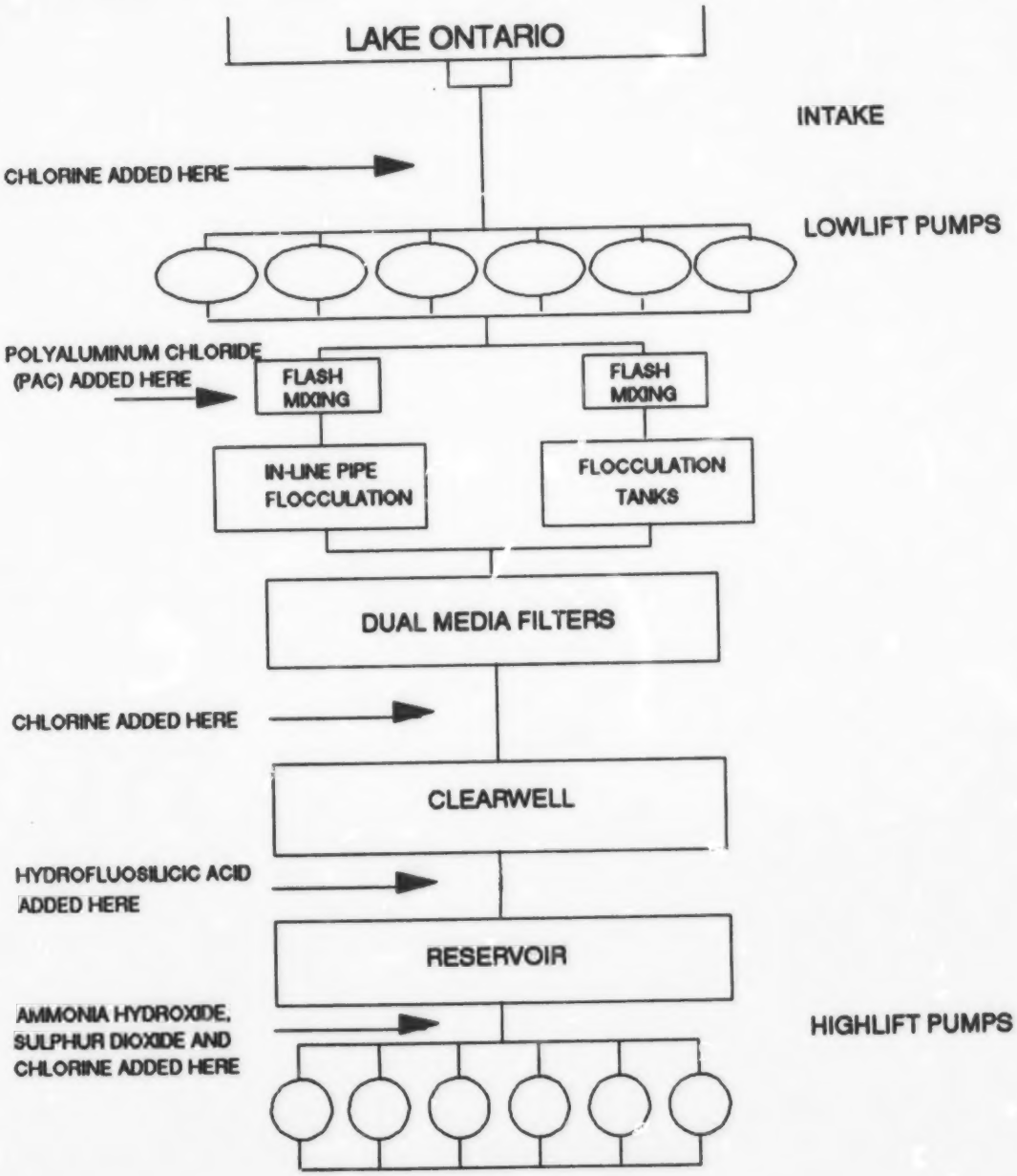

TABLE 2

DRINKING WATER SURVEILLANCE PROGRAM ANNUAL REPORT

GENERAL INFORMATION

METRO TORONTO (EASTERLY) WATER TREATMENT PLANT

LOCATION:	201 COPPERFIELD RD WEST HILL, ONTARIO M1Z 4S1 (416-281-2888)
SOURCE:	RAW WATER SOURCE - LAKE ONTARIO
RATED CAPACITY:	550 (1000 M3/DAY)
OPERATION:	MUNICIPAL
PLANT SUPERINTENDENT:	W. RIDDOCK
MINISTRY REGION:	CENTRAL
DISTRICT OFFICER:	D. HOGG

MUNICIPALITY SERVED	POPULATION
CITY OF TORONTO	615,000
CITY OF ETOBICOKE	298,490
CITY OF NORTH YORK	556,308
CITY OF SCARBOROUGH	461,957
CITY OF YORK	133,856
BOROUGH OF EAST YORK	97,679
REGION OF YORK (SOUTH)	170,000

iv) Distribution System - Site 2 - This house is approximately 5.0 kilometers from the plant. Water was sampled through copper plumbing from the basement laundry tap.

v) Distribution System - Site 3 - This house is approximately 4.0 kilometers from the plant. Water was sampled through copper plumbing from the main floor laundry tap.

Sample lines in the plant were flushed prior to sampling to ensure that the water obtained was indicative of its origin and not residual water standing in the sample line.

At the distribution system location two types of samples were obtained: a standing and a free flow. The standing sample consisted of water that had been in the household plumbing and service connection for a minimum of six hours. These samples are used to make an assessment of the amount by which the levels of inorganic compounds and metals may be changed on standing, due to leaching from (or deposition on), the plumbing system. The only analyses carried out on these samples therefore, are General Chemistry and Metals. The free flow sample represented fresh water from the distribution main that had been flowing at the sample tap for five minutes before being sampled.

Attempts were made to capture the same block of water at each sampling point by taking the retention time into consideration. The retention time was calculated by dividing the volume of water

between the two sampling points by the sample day flow. For example, if it was determined that the retention time within the plant was five hours then there would be a five hour interval between the raw and treated sampling. Similarly, if it was estimated that it took approximately one day for the water to travel from the plant to the distribution system site, this site would be sampled one day after the treated water from the plant.

Stringent DWSP sampling protocols were followed to ensure that all samples were taken in a uniform manner.

Sample day flow, treatment chemical dosages and Field Chemistry measurements such as Turbidity, Chlorine Residuals, pH and Temperature were recorded on the day of sampling and were entered onto the DWSP data base as submitted.

RESULTS

The Easterly Water Treatment Plant was sampled for approximately 160 parameters on a monthly basis. Two sites from the distribution system were sampled on a monthly basis. Sampling at Site 1 was discontinued in June and new site was not selected until November.

The Specific Pesticides and Chlorophenols scans were sampled for in June and November only. Polynuclear Aromatic Hydrocarbons and Phenolics are only analysed for in the raw and treated water at the plant. As a result of an unforeseen emergency the laboratory capacity was exceeded and analysis for volatiles could not be carried out when the samples were received. Since analysis for

volatiles is no longer valid after four weeks of storage, volatile results for February are not available.

Table 3 contains information on the sample day retention time, flow rate and treatment chemicals used and their associated dosages.

Table 4 is a summary break-down of the number of water samples analysed for by parameter and by water type. The number of times that a positive or trace result was detected is also reported.

Positive denotes that the result is greater than the statistical limit of detection established by the Ministry of the Environment (MOE) laboratory staff and is quantifiable. Trace (<T) denotes that the level measured is greater than the lowest value detectable by the method but lies so close to the detection limit that it cannot be confidently quantified.

Table 5 presents the results for parameters detected on at least one occasion.

Table 6 lists all parameters analysed in the DWSP.

Associated guidelines and detection limits are also supplied on both tables. Parameters are listed alphabetically within each scan.

DISCUSSION

General

Water quality is judged by comparison with the Ontario Drinking Water Objectives (ODWOs) as defined in the 1984 publication (ISBN 0-7743-8985-0). The Province of Ontario has health related and aesthetic objectives for 49 parameters, which are currently under review. When an ODWO is not available guidelines/limits from other agencies are consulted. The Parameter Listing System (PALIS) recently published (ISBN 0-7729-4461-x) by the MOE catalogues and keeps current over 1750 guidelines for 650 parameters from agencies throughout the world.

Although some of the parameters measured on DWSP may be present in the raw and treated water as a result of pollution, many of the compounds detected are naturally occuring or are treatment by-products.

Plant operational personnel address occurrences of taste and odour or biological water quality parameters. The DWSP does not assess these aspects of the water supply.

As defined under Results, traces do not indicate quantifiable values, as defined by established MOE Laboratory analytical reporting protocols. While they can be useful in trend analysis or confirmation of the presence of a specific contaminant that is repeatedly detected at these levels, the occasional finding of a trace level of a contaminant is not considered to be significant.

DISCUSSION OF GUIDELINES AND LIMITS THEREFORE, IS ONLY CONDUCTED ON POSITIVE RESULTS.

Bacteriology

Positive results for the Bacteriology scan were present nine times in the treated water, six times in the distribution system Site 1 water, eight times in the Site 2 water and three times in the Site 3 water. In all cases the positive parameters were Standard Plate Count, Total Coliforms and/or Total Coliform Background. Total Coliform bacteria were determined to be present within 48 hours in the March treated water sample. The District Officer was notified.

The low Standard Plate Counts indicate that good microbiological control was maintained in the distribution system.

Guidelines for bacteriological sampling and testing of a supply are developed to maintain a proper supervision of its bacteriological quality; the routine monitoring program usually requires the taking of multiple samples in a given system. Full interpretation of bacteriological quality cannot be made on the basis of single samples. Further, bacteriological limits were developed in acknowledgement that the presence of coliforms may be detected due to their non-uniform distribution throughout the distribution system and the fact that their enumeration is subject to considerable variation. For these reasons, the occasional finding of low numbers of coliform organisms is not unexpected. Routine bacteriological monitoring, as outlined in the ODWOs is carried out by the operating authority.

Inorganic and Physical Parameters

Laboratory and Field Chemistry

The results for Laboratory Chemistry and Field Chemistry scans were below applicable ODWOs.

The Langelier Index is used extensively in estimating the corrosion potential of water. An increasingly negative index indicates the increasing possibility of corrosion. It is considered sound engineering practice to maintain a slightly positive Langelier Index. The Langelier Index for the Easterly water is consistently in the positive range.

The Total Ammonium levels are high, not as a result of naturally occurring ammonia (eg. from sewage pollution) but from the anhydrous ammonia added in the treatment process. The ammonia is added after post-chlorination to provide a long lasting combined chlorine (chloramine) residual in the distribution system. Substantial free chlorine residuals were present in the treated water in February, November and December. Table 3 indicates that ammonia hydroxide was not added in November. While the European Economic Community has an aesthetic guideline of .05 mg/L, the Maximum Admissable Concentration is .50 mg/L and is set as a result of the concern for potential sewage pollution and its detection.

As part of the treatment plant process, hydrofluosilicic acid is added to the treated water (Table 3). Where fluoridation is practiced, the Fluoride concentration recommended in the ODWOs is

1.2 mg/L, plus or minus 0.2 mg/L. Maintenance of this level can be observed in the Fluoride levels in the treated and distribution system samples. Hydrofluosilicic acid was not added at the time of sampling in July.

It is desirable that the Temperature of drinking water be less than 15°C; the palatability of water is enhanced by its coolness. A temperature below 15°C will tend to reduce the growth of nuisance organisms and hence minimize associated taste, colour, odour and corrosion problems. The temperature of the delivered water may increase in the distribution system due to the warming effect of the soil in late summer and fall and/or as a result of higher temperatures in the source water. The desired ODWO was exceeded once in the distribution system Site 2 water.

The ODWO recommend a hardness level of between 80 and 100 mg/L as calcium carbonate for domestic waters, to provide an acceptable balance between corrosion and incrustation. Water supplies with a hardness greater than 200 mg/L are considered poor and would possess a tendency to form scale deposits and result in excessive soap consumption. Hardness levels for the Easterly water ranged from 129 mg/l to 145 mg/L as calcium carbonate.

Metals

The results reported for the Metals scan were below any applicable ODWOs.

Iron and Manganese levels were lower in the treated water as compared to the raw water. This is the result of the treatment

process. The addition of polyaluminum chloride as a coagulant to the raw water (Table 3) and the resulting coagulation/settling process has been shown to reduce the levels of these metals.

Elevated levels of Iron were present in the distribution system samples as compared to the treated water leaving the plant indicating that small quantities of Iron were leached from the distribution system mains as the water travelled to each house.

Elevated levels of Copper, Lead and Zinc were detected in the standing samples as compared to the free flow distribution samples thus, indicating that small quantities of these metals were leached from the household plumbing as the water stood overnight.

Although the Langelier Index indicates minimal potential for corrosion some metals will be leached in standing samples in most supplies.

At present, there is no evidence that Aluminum is physiologically harmful and no health limit for drinking water has been specified. The measure of residual Aluminum in the treated water is important to indicate the efficiency of the treatment process. The ODWO indicates that a useful guideline is to maintain a residual below 0.1 mg/L as Al in the water leaving the plant to avoid problems in the distribution system. The ODWO operational guideline for aluminum was exceeded on one occasion. The Municipality of Toronto Department of Works in conjunction with the Ministry of the Environment is currently studying the issue of Aluminum in drinking water, with the intent of establishing comparable methods for

analysis of aluminum residuals and to optimize the amount of alum added in the treatment process.

Organic Parameters

Chloroaromatics

The results of the Chloroaromatics scan showed that none were detected.

Chlorophenols

The results of the Chlorophenols scan showed that no Chlorophenols were detected.

Pesticides and PCB (Polychlorinated Biphenyl)

The results of the Pesticides and PCB scan showed that no PCBs were detected and that two pesticides were detected:

Alpha BHC

Lindane

There are several isomers of BHC (Benzene Hexachloride); gamma BHC is the active ingredient of the pesticide Lindane, while alpha BHC is the predominant isomer found in surface waters from the Great Lakes Basin.

Alpha BHC was detected at trace levels, seven times in the raw water, ten times in the treated water, four times in the distribution system Site 1 water, seven times in the Site 2 water and twice in the Site 3 water.

Lindane was detected at trace levels, once in the treated water.

Specific Pesticides

Results of the Specific Pesticides scan showed that none were detected.

Phenolics

The maximum desirable concentration of phenolic substances in drinking water is 2.0 ug/L. This limit has been set primarily to prevent the occurrence of undesirable tastes and odours, particularly in chlorinated water. Phenolics were detected at 4.8 ug/L in the July treated water sample, 1.6 ug/L in the raw water and 2.0 ug/L in the treated water sampled in August and at 1.4 ug/L in the November treated water sample. Phenolics were detected at trace levels, eleven times in the raw water and nine times in the treated water. Phenolic compounds are present in the aquatic environment as a result of natural and/or industrial processes.

Polynuclear Aromatic Hydrocarbons (PAHs)

Results of the PAH scan showed that no PAHs were detected.

Volatiles

Results of the Volatiles scan showed that eight parameters, other than Trihalomethanes(THMs), were detected:

Benzene

Toluene

Ethylbenzene

Meta and Para-Xylene

Ortho-Xylene

Styrene

Methylene Chloride (Dichloromethane)

Tetrachloroethylene

Benzene was detected at trace levels, once in the distribution system Site 1 water.

Toluene was detected at trace levels, five times in the treated water, twice in the distribution system Site 1 water, four times in the Site 2 water and once in the Site 3 water. The detection of toluene at low, trace levels is a laboratory artifact derived from the analytical methodology. The purge-and-trap analytical technique depends on the purging of the volatile organics in the water sample with helium gas onto a Tenax trapping column. The volatile materials are subsequently thermally desorbed, separated and quantified. Tenax, a toluene-like polymeric material, tends to decompose sporadically upon heating into toluene and other aromatic componenets (ethylbenzene and xylene) giving instrument blanks in the order of 0.05 ug/L.

The detected trace levels of Styrene are also considered to be laboratory artifacts due to the outgassing of monomeric styrene from the polystyrene shipping containers. The sporadic background levels from this source are in the order of 0.05 ug/L.

Ethylbenzene was detected at trace levels, four times in the raw water, ten times in the treated water, four times in the distribution system Site 1 water, six times in the Site 2 water and once in the Site 3 water.

Meta and Para-Xylene are reported as one compound, M-Xylene and were detected at trace levels, three times in the raw water, once in the treated water and twice in the distribution system Site 1 water.

Ortho-Xylene (O-Xylene) was detected at trace levels, once in the treated water and three times in the distribution system Site 1 water.

These volatiles are typically found on an occasional basis at other water supplies included on the DWSP usually at trace levels.

Methylene Chloride was detected at a trace level once in the distribution system Site 1 water.

Tetrachloroethylene was detected at a trace level, once in the treated water.

THMs are acknowledged to be produced during the water treatment process and will always occur in chlorinated surface waters. THMs are comprised mainly of Chloroform, Chlorodibromomethane and Dichlorobromomethane. Bromoform occurs occasionally. Results are reported for the individual compounds as well as for total THMs.

Chloroform, Chlorodibromomethane, Dichlorobromomethane and Total THMs were always detected in the treated waters. Bromoform was detected at trace levels in all treated waters. All Total THM occurrences, ranging from 16.0 ug/L to 34.6 ug/L, were well below the ODWO of 350 ug/L. Due to plant configuration, a true raw water

sample can only be obtained after the pre-chlorination has been shut off for a period of time prior to sampling. The occurence of THMs in these raw water samples (January, August, October and December) are probably due to the sampling procedure.

Raw and treated water quality for 1986, 1987 and 1988 has remained consistent.

CONCLUSIONS

The Metro Toronto (Easterly) Water Treatment Plant for the sample year of 1988 produced good quality water at the plantas assessed by the results for parameters analysed in DWSP and this quality was maintained in the distribution system.

No health related guidelines, for organic or inorganic parameters, were exceeded during 1986, 1987 or 1988.

TABLE 3

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) SAMPLE DAY CONDITIONS 1988

	SAMPLE DAY CONDITIONS		TREATMENT CHEMICAL DOSAGES (MG/L)					
			PRE-CHLORINATION	COAGULATION	POST-CHLORINATION	FLUORIDATION	DECHLORINATION	CHLORAMINATION
			CHLORINE	POLY ALUMINUM CHLORIDE	CHLORINE	HYDROFLUOSILICIC ACID	SULPHUR DIOXIDE	AMMONIUM HYDROXIDE
DATE	RETENTION TIME(HRS)	FLOW (1000 M3)						
JAN 19	13.1	190.0	.80	.60	1.53	1.05	.38	.17
FEB 16	6.5	380.0	.75	.60	.80	1.06	.25	.18
MAR 21	6.4	389.0	.80	.60	1.80	1.03	.80	.18
APR 18	6.4	389.0	.80	.60	.81	1.02	.32	.16
MAY 18	5.3	389.0	.80	.60	1.00	1.00	.41	.15
JUN 21	4.5	544.0	.80	.60	1.68	1.03	1.02	.16
JUL 19	6.4	389.0	.80	1.00	1.80	.	1.00	.16
AUG 16	6.4	389.0	.80	.80	2.10	1.07	1.20	.17
SEP 20	6.4	389.0	.80	.70	1.10	1.11	.79	.15
OCT 17	6.7	380.0	.80	.75	.81	1.13	.33	.17
NOV 22	6.5	380.0	.80	.79	1.86	1.03	1.34	.
DEC 13	.0	389.0	.80	.67	1.17	1.00	.36	.20

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP)

SUMMARY TABLE OF RESULTS (1988)

		RAW			TREATED			SITE 1			SITE 3			SITE 2		
SCAN	PARAMETER	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE
BACTERIOLOGICAL	FECAL COLIFORM MF	12	7	0	.	.	.	.	.	.	.	.	.	10	5	0
	STAMDRD PLATE CNT MF	8	8	0	12	4	0	6	5	0	2	0	0	8	0	0
	P/A BOTTLE	.	.	.	8	0	0	6	0	0	.	.	.	10	0	0
	TOTAL COLIFORM MF	12	10	0	12	1	0	6	0	0	2	0	0	10	1	0
	T COLIFORM BCKGRD MF	12	12	0	12	2	0	6	1	0	2	1	0	38	6	0
*TOTAL SCAN BACTERIOLOGICAL		44	37	0	44	7	0	24	6	0	6	1	0	38	6	0
*TOTAL GROUP BACTERIOLOGICAL		44	37	0	44	7	0	24	6	0	6	1	0	38	6	0
CHEMISTRY (FLD)	FLD CHLORINE (COMB)	.	.	.	12	12	0	12	12	0	4	4	0	20	20	0
	FLD CHLORINE FREE	.	.	.	3	3	0	2	2	0	1	1	0	2	2	0
	FLD CHLORINE (TOTAL)	.	.	.	12	12	0	12	12	0	4	4	0	20	20	0
	FLD PH	12	12	0	12	12	0	12	12	0	4	4	0	20	20	0
	FLD TEMPERATURE	12	12	0	12	12	0	12	12	0	4	4	0	20	20	0
	FLD TURBIDITY	12	12	0	12	12	0	12	12	0	4	4	0	20	20	0
*TOTAL SCAN CHEMISTRY (FLD)		36	36	0	63	63	0	62	62	0	21	21	0	102	102	0
CHEMISTRY (LAB)	ALKALINITY	12	12	0	12	12	0	12	12	0	4	4	0	20	20	0
	CALCIUM	12	12	0	12	12	0	12	12	0	4	4	0	20	20	0
	CYANIDE	12	0	0	12	0	0	6	0	0	2	0	0	11	0	0
	CHLORIDE	12	12	0	12	12	0	12	12	0	4	4	0	20	20	0
	COLOUR	12	0	12	12	0	11	12	11	1	4	0	4	20	4	16

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP)

SUMMARY TABLE OF RESULTS (1988)

SCAN	PARAMETER	SITE RAW TOTAL	RAW POSITIVE	RAW TRACE	TREATED TOTAL	TREATED POSITIVE	TREATED TRACE	SITE 1 TOTAL	SITE 1 POSITIVE	SITE 1 TRACE	SITE 3 TOTAL	SITE 3 POSITIVE	SITE 3 TRACE	SITE 2 TOTAL	SITE 2 POSITIVE	SITE 2 TRACE
CHEMISTRY (LAB)	CONDUCTIVITY	12	12	0	12	12	0	12	12	0	4	4	0	20	20	0
	FLUORIDE	12	12	0	12	12	0	12	12	0	4	4	0	20	20	0
	HARDNESS	12	12	0	12	12	0	12	12	0	4	4	0	20	20	0
	IONCAL	12	6	0	12	6	0	12	0	0	4	4	0	20	8	0
	LANGELIERS INDEX	12	12	0	11	11	0	12	12	0	4	4	0	18	18	0
	MAGNESIUM	12	12	0	12	12	0	12	12	0	4	4	0	20	20	0
	SODIUM	12	12	0	12	12	0	12	12	0	4	4	0	20	20	0
	AMMONIUM TOTAL	12	7	4	12	11	0	12	12	0	4	3	1	20	20	0
	NITRITE	12	3	9	12	2	10	12	12	0	4	1	3	20	11	9
	TOTAL NITRATES	12	12	0	12	12	0	12	12	0	4	4	0	20	20	0
	NITROGEN TOT KJELD	12	12	0	12	12	0	12	12	0	4	4	0	20	20	0
	PH	12	12	0	12	12	0	12	12	0	4	4	0	20	20	0
	PHOSPHORUS FIL REACT	12	4	7	12	4	8	.	.	.	.	.	.	.	.	.
	PHOSPHORUS TOTAL	12	8	4	12	1	11	.	.	.	.	.	.	.	.	.
	SULPHATE	6	6	0	6	6	0	.	.	.	4	4	0	8	8	0
	TURBIDITY	12	12	0	12	10	2	12	12	0	4	2	2	20	19	1
*TOTAL SCAN CHEMISTRY (LAB)		246	190	36	245	183	42	210	191	1	74	62	10	357	308	26
METALS	SILVER	12	0	5	12	0	7	12	0	7	4	0	2	20	0	8
	ALUMINUM	12	12	0	12	12	0	12	12	0	4	4	0	20	20	0
	ARSENIC	12	4	8	12	10	2	12	5	7	4	2	2	20	12	8
	BARIUM	12	12	0	12	12	0	12	12	0	4	4	0	20	20	0
	BORON	12	12	0	12	12	0	12	11	1	4	4	0	20	20	0

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP)

SUMMARY TABLE OF RESULTS (1988)

SCAN	PARAMETER	SITE RAW TOTAL	RAW POSITIVE	RAW TRACE	TREATED TOTAL	TREATED POSITIVE	TREATED TRACE	SITE 1 TOTAL	SITE 1 POSITIVE	SITE 1 TRACE	SITE 3 TOTAL	SITE 3 POSITIVE	SITE 3 TRACE	SITE 2 TOTAL	SITE 2 POSITIVE	SITE 2 TRACE
METALS	BERYLLIUM	12	0	8	12	0	8	12	0	5	4	0	4	20	0	8
	CADMIUM	12	0	2	12	0	3	12	0	5	4	0	1	20	0	2
	COBALT	12	1	11	12	0	12	12	0	12	4	0	4	20	0	20
	CHROMIUM	12	4	8	12	5	7	12	0	12	4	2	2	20	3	17
	COPPER	12	12	0	12	12	0	12	12	0	4	4	0	20	20	0
	IRON	12	2	10	12	0	5	12	11	1	4	0	0	20	10	10
	MERCURY	12	0	3	12	1	2	6	2	0	2	0	1	11	0	1
	MANGANESE	12	12	0	12	0	12	12	12	0	4	1	3	20	20	0
	MOLYBDENUM	12	12	0	12	12	0	12	12	0	4	4	0	20	20	0
	NICKEL	12	2	10	12	1	9	12	4	8	4	1	3	20	2	18
	LEAD	12	8	4	12	11	1	12	6	6	4	4	0	20	19	1
	ANTIMONY	12	11	1	12	12	0	12	10	2	4	4	0	20	19	1
	SELENIUM	12	0	9	12	0	10	12	0	11	4	0	4	20	0	18
	STRONTIUM	12	12	0	12	12	0	12	12	0	4	4	0	20	20	0
	TITANIUM	12	11	1	12	11	1	12	12	0	4	4	0	20	19	1
	THALLIUM	12	0	4	12	0	1	12	0	5	4	0	0	20	0	9
	URANIUM	12	12	0	12	12	0	12	12	0	4	4	0	20	20	0
	VANADIUM	12	0	12	12	0	12	12	0	12	4	0	4	20	0	20
	ZINC	12	12	0	12	12	0	12	12	0	4	4	0	20	20	0
*TOTAL SCAN METALS		288	151	96	288	147	92	282	157	94	94	50	30	471	264	142
*TOTAL GROUP INORGANIC & PHYSICAL		570	377	132	596	393	134	554	410	95	189	133	40	930	674	168
CHLOROAROMATICS	HEXACHLOROBUTADIENE	11	0	0	12	0	0	6	0	0	2	0	0	11	0	0

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP)

SUMMARY TABLE OF RESULTS (1988)

SCAN	PARAMETER	SITE RAW TOTAL	RAW POSITIVE	RAW TRACE	TREATED TOTAL	TREATED POSITIVE	TREATED TRACE	SITE 1 TOTAL	SITE 1 POSITIVE	SITE 1 TRACE	SITE 3 TOTAL	SITE 3 POSITIVE	SITE 3 TRACE	SITE 2 TOTAL	SITE 2 POSITIVE	SITE 2 TRACE
CHLOROAROMATICS	123 TRICHLOROBENZENE	11	0	0	12	0	0	6	0	0	2	0	0	11	0	0
	1234 T-CHLOROBENZENE	11	0	0	12	0	0	6	0	0	2	0	0	11	0	0
	1235 T-CHLOROBENZENE	11	0	0	12	0	0	6	0	0	2	0	0	11	0	0
	124 TRICHLOROBENZENE	11	0	0	12	0	0	6	0	0	2	0	0	11	0	0
	1245 T-CHLOROBENZENE	11	0	0	12	0	0	6	0	0	2	0	0	11	0	0
	135 TRICHLOROBENZENE	11	0	0	12	0	0	6	0	0	2	0	0	11	0	0
	HCB	11	0	0	12	0	0	6	0	0	2	0	0	11	0	0
	HEXACHLOROETHANE	11	0	0	12	0	0	6	0	0	2	0	0	11	0	0
	OCTACHLOROSTYRENE	11	0	0	12	0	0	6	0	0	2	0	0	11	0	0
	PENTACHLOROBENZENE	11	0	0	12	0	0	6	0	0	2	0	0	11	0	0
	236 TRICHLOROTOLUENE	11	0	0	12	0	0	6	0	0	2	0	0	11	0	0
	245 TRICHLOROTOLUENE	11	0	0	12	0	0	6	0	0	2	0	0	11	0	0
	26A TRICHLOROTOLUENE	11	0	0	12	0	0	6	0	0	2	0	0	11	0	0
*TOTAL SCAN CHLOROAROMATICS		154	0	0	168	0	0	84	0	0	28	0	0	154	0	0
CHLOROPHENOLS	234 TRICHLOROPHENOL	2	0	0	2	0	0	.	.	.	.	.	.	.	.	.
	2345 T-CHLOROPHENOL	2	0	0	2	0	0	.	.	.	.	.	.	.	.	.
	2356 T-CHLOROPHENOL	2	0	0	2	0	0	.	.	.	.	.	.	.	.	.
	245-TRICHLOROPHENOL	2	0	0	2	0	0	.	.	.	.	.	.	.	.	.
	246-TRICHLOROPHENOL	2	0	0	2	0	0	.	.	.	.	.	.	.	.	.
	PENTACHLOROPHENOL	2	0	0	2	0	0	.	.	.	.	.	.	.	.	.
*TOTAL SCAN CHLOROPHENOLS		12	0	0	12	0	0	0	0	0	0	0	0	0	0	0

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP)

SUMMARY TABLE OF RESULTS (1988)

SCAN	PARAMETER	SITE RAW TOTAL	RAW POSITIVE	RAW TRACE	TREATED TOTAL	TREATED POSITIVE	TREATED TRACE	SITE 1 TOTAL	SITE 1 POSITIVE	SITE 1 TRACE	SITE 3 TOTAL	SITE 3 POSITIVE	SITE 3 TRACE	SITE 2 TOTAL	SITE 2 POSITIVE	SITE 2 TRACE
PAH	PHENANTHRENE	12	0	0	12	0	0	.	.	.	.	.	.	.	.	.
	ANTHRACENE	12	0	0	12	0	0	.	.	.	.	.	.	.	.	.
	FLUORANTHENE	12	0	0	12	0	0	.	.	.	.	.	.	.	.	.
	PYRENE	12	0	0	12	0	0	.	.	.	.	.	.	.	.	.
	BENZO(A)ANTHRACENE	12	0	0	12	0	0	.	.	.	.	.	.	.	.	.
	CHRYSENE	12	0	0	12	0	0	.	.	.	.	.	.	.	.	.
	DIMETH. BENZ(A)ANTHR	12	0	0	12	0	0	.	.	.	.	.	.	.	.	.
	BENZO(E) PYRENE	12	0	0	12	0	0	.	.	.	.	.	.	.	.	.
	BENZO(J) FLUORANTHEN	0	0	0	0	0	0	.	.	.	.	.	.	.	.	.
	BENZO(B) FLUORANTHEN	12	0	0	12	0	0	.	.	.	.	.	.	.	.	.
	PERYLENE	12	0	0	12	0	0	.	.	.	.	.	.	.	.	.
	BENZO(K) FLUORANTHEN	12	0	0	12	0	0	.	.	.	.	.	.	.	.	.
	BENZO(A) PYRENE	12	0	0	12	0	0	.	.	.	.	.	.	.	.	.
	BENZO(G,H,I) PERYLEN	12	0	0	12	0	0	.	.	.	.	.	.	.	.	.
	DIBENZO(A,H) ANTHRAC	12	0	0	12	0	0	.	.	.	.	.	.	.	.	.
	INDENO(1,2,3-C,D) PY	12	0	0	12	0	0	.	.	.	.	.	.	.	.	.
	BENZO(B) CHRYSENE	12	0	0	12	0	0	.	.	.	.	.	.	.	.	.
	ANTHANTHRENE	0	0	0	0	0	0	.	.	.	.	.	.	.	.	.
	CORONENE	12	0	0	12	0	0	.	.	.	.	.	.	.	.	.
*TOTAL SCAN PAH		204	0	0	204	0	0	0	0	0	0	0	0	0	0	0
PESTICIDES & PCB	ALDRIN	11	0	0	12	0	0	6	0	0	2	0	0	11	0	0
	ALPHA BHC	11	0	7	12	0	10	6	0	4	2	0	2	11	0	7

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP)

SUMMARY TABLE OF RESULTS (1988)

SCAN	PARAMETER	SITE RAW			TREATED			SITE 1			SITE 3			SITE 2		
		TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE
PESTICIDES & PCB	BETA BHC	11	0	0	12	0	0	6	0	0	2	0	0	11	0	0
	LINDANE	11	0	0	12	0	1	6	0	0	2	0	0	11	0	0
	ALPHA CHLORDANE	11	0	0	12	0	0	6	0	0	2	0	0	11	0	0
	GAMMA CHLORDANE	11	0	0	12	0	0	6	0	0	2	0	0	11	0	0
	DIELDRIN	11	0	0	12	0	0	6	0	0	2	0	0	11	0	0
	METHOXYCHLOR	11	0	0	12	0	0	6	0	0	2	0	0	11	0	0
	ENDOSULFAN I	11	0	0	12	0	0	6	0	0	2	0	0	11	0	0
	ENDOSULFAN II	11	0	0	12	0	0	6	0	0	2	0	0	11	0	0
	ENDRIN	11	0	0	12	0	0	6	0	0	2	0	0	11	0	0
	ENDOSULFAN SULPHATE	11	0	0	12	0	0	6	0	0	2	0	0	11	0	0
	HEPTACHLOR EPOXIDE	11	0	0	12	0	0	6	0	0	2	0	0	11	0	0
	HEPTACHLOR	11	0	0	12	0	0	6	0	0	2	0	0	11	0	0
	MIREX	11	0	0	12	0	0	6	0	0	2	0	0	11	0	0
	OXYCHLORDANE	11	0	0	12	0	0	6	0	0	2	0	0	11	0	0
	OPDDT	11	0	0	12	0	0	6	0	0	2	0	0	11	0	0
	PCB	11	0	0	12	0	0	6	0	0	2	0	0	11	0	0
	DDD	11	0	0	12	0	0	6	0	0	2	0	0	11	0	0
	PPDDE	11	0	0	12	0	0	6	0	0	2	0	0	11	0	0
	PPDDT	11	0	0	12	0	0	6	0	0	2	0	0	11	0	0
	AMETRINE	12	0	0	12	0	0	6	0	0	2	0	0	10	0	0
	ATRAZINE	12	0	0	12	0	0	6	0	0	2	0	0	10	0	0
	ATRATONE	12	0	0	12	0	0	6	0	0	2	0	0	10	0	0
	CYANAZINE	12	0	0	12	0	0	6	0	0	2	0	0	10	0	0
	DES ETHYL ATRAZINE	6	0	0	6	0	0	.	.	.	2	0	0	4	0	0
	DES ETHYL SIMAZINE	6	0	0	6	0	0	.	.	.	2	0	0	4	0	0

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP)

SUMMARY TABLE OF RESULTS (1988)

SCAN	PARAMETER	SITE RAW TOTAL	RAW POSITIVE	RAW TRACE	TREATED TOTAL	TREATED POSITIVE	TREATED TRACE	SITE 1 TOTAL	SITE 1 POSITIVE	SITE 1 TRACE	SITE 3 TOTAL	SITE 3 POSITIVE	SITE 3 TRACE	SITE 2 TOTAL	SITE 2 POSITIVE	SITE 2 TRACE
PESTICIDES & PCB	PROMETONE	12	0	0	12	0	0	6	0	0	2	0	0	10	0	0
	PROPAZINE	12	0	0	12	0	0	6	0	0	2	0	0	10	0	0
	PROMETRYNE	12	0	0	12	0	0	6	0	0	2	0	0	10	0	0
	METRIBUZIN	12	0	0	12	0	0	6	0	0	2	0	0	10	0	0
	SIMAZINE	12	0	0	12	0	0	6	0	0	2	0	0	10	0	0
	ALACHLOR	12	0	0	12	0	0	6	0	0	2	0	0	10	0	0
	METOLACHLOR	12	0	0	12	0	0	6	0	0	2	0	0	10	0	0
*TOTAL SCAN PESTICIDES & PCB		375	0	7	396	0	11	192	0	4	68	0	2	349	0	7
PHENOLICS	PHENOLICS	12	1	11	12	3	9	.	.	.	.	.	.	.	.	.
*TOTAL SCAN PHENOLICS		12	1	11	12	3	9	0	0	0	0	0	0	0	0	0
SPECIFIC PESTICIDES	TOXAPHENE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2,4,5-T	2	0	0	2	0	0	.	.	.	.	.	.	.	.	.
	2,4-D	2	0	0	2	0	0	.	.	.	.	.	.	.	.	.
	24DCHLRPHENOXYBUTYRC	2	0	0	2	0	0	.	.	.	.	.	.	.	.	.
	2,4 D PROPIONIC ACID	2	0	0	2	0	0	.	.	.	.	.	.	.	.	.
	DICAMBA	2	0	0	2	0	0	.	.	.	.	.	.	.	.	.
	PICHLORAM	0	0	0	0	0	0	.	.	.	.	.	.	.	.	.
	SILVEX	2	0	0	2	0	0	.	.	.	.	.	.	.	.	.
	DIAZINON	2	0	0	2	0	0	.	.	.	.	.	.	.	.	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP)

SUMMARY TABLE OF RESULTS (1988)

SCAN	PARAMETER	SITE RAW TOTAL	RAW POSITIVE	RAW TRACE	TREATED TOTAL	TREATED POSITIVE	TREATED TRACE	SITE 1 TOTAL	SITE 1 POSITIVE	SITE 1 TRACE	SITE 3 TOTAL	SITE 3 POSITIVE	SITE 3 TRACE	SITE 2 TOTAL	SITE 2 POSITIVE	SITE 2 TRACE
SPECIFIC PESTICIDES	DICHLOROVOS	2	0	0	2	0	0	.	.	.	.	.	.	.	.	.
	CHLORPYRIFOS	2	0	0	2	0	0	.	.	.	.	.	.	.	.	.
	ETHION	2	0	0	2	0	0	.	.	.	.	.	.	.	.	.
	AZINPHOS-METHYL	0	0	0	0	0	0	.	.	.	.	.	.	.	.	.
	MALATHION	2	0	0	2	0	0	.	.	.	.	.	.	.	.	.
	MEVINPHOS	2	0	0	2	0	0	.	.	.	.	.	.	.	.	.
	METHYL PARATHION	2	0	0	2	0	0	.	.	.	.	.	.	.	.	.
	METHYLTRITHION	2	0	0	2	0	0	.	.	.	.	.	.	.	.	.
	PARATHION	2	0	0	2	0	0	.	.	.	.	.	.	.	.	.
	PHORATE	2	0	0	2	0	0	.	.	.	.	.	.	.	.	.
	RELDAN	2	0	0	2	0	0	.	.	.	.	.	.	.	.	.
	ROMMEL	2	0	0	2	0	0	.	.	.	.	.	.	.	.	.
	AMINOCARB	0	0	0	0	0	0	.	.	.	.	.	.	.	.	.
	BENOMYL	2	0	0	2	0	0	.	.	.	.	.	.	.	.	.
	BUX	2	0	0	2	0	0	.	.	.	.	.	.	.	.	.
	CARBOFURAN	2	0	0	2	0	0	.	.	.	.	.	.	.	.	.
	CICP	2	0	0	2	0	0	.	.	.	.	.	.	.	.	.
	DIALLATE	2	0	0	2	0	0	.	.	.	.	.	.	.	.	.
	EPTAM	2	0	0	2	0	0	.	.	.	.	.	.	.	.	.
	IPC	2	0	0	2	0	0	.	.	.	.	.	.	.	.	.
	PROPOXUR	2	0	0	2	0	0	.	.	.	.	.	.	.	.	.
	CARBARYL	2	0	0	2	0	0	.	.	.	.	.	.	.	.	.
	BUTYLATE	2	0	0	2	0	0	.	.	.	.	.	.	.	.	.
*TOTAL SCAN SPECIFIC PESTICIDES		56	0	0	56	0	0	0	0	0	0	0	0	0	0	0

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP)

SUMMARY TABLE OF RESULTS (1988)

SCAN	PARAMETER	SITE RAW TOTAL	RAW POSITIVE	RAW TRACE	TREATED TOTAL	TREATED POSITIVE	TREATED TRACE	SITE 1 TOTAL	SITE 1 POSITIVE	SITE 1 TRACE	SITE 3 TOTAL	SITE 3 POSITIVE	SITE 3 TRACE	SITE 2 TOTAL	SITE 2 POSITIVE	SITE 2 TRACE
VOLATILES	BENZENE	11	0	0	11	0	0	5	0	1	2	0	0	9	0	0
	TOLUENE	11	0	0	11	2	3	5	1	1	2	0	1	9	2	2
	ETHYLBENZENE	11	0	4	11	0	10	5	0	4	2	0	1	9	0	6
	P-XYLENE	11	0	0	11	0	1	4	0	1	2	0	0	9	0	0
	M-XYLENE	11	0	3	11	0	0	5	0	1	2	0	0	9	0	0
	O-XYLENE	11	0	0	11	0	1	5	0	3	2	0	0	9	0	0
	STYRENE	3	1	1	3	1	2	.	.	.	2	0	2	2	0	2
	1,1 DICHLOROETHYLENE	11	0	0	11	0	0	5	0	0	2	0	0	9	0	0
	METHYLENE CHLORIDE	11	0	0	11	0	0	5	0	1	2	0	0	9	0	0
	T1,2DICHLOROETHYLENE	11	0	0	11	0	0	5	0	0	2	0	0	9	0	0
	1,1 DICHLOROETHANE	11	0	0	11	0	0	5	0	0	2	0	0	9	0	0
	CHLOROFORM	11	2	4	11	11	0	5	5	0	2	2	0	9	9	0
	111, TRICHLOROETHANE	11	0	0	11	0	0	5	0	0	2	0	0	9	0	0
	1,2 DICHLOROETHANE	11	0	0	11	0	0	5	0	0	2	0	0	9	0	0
	CARBON TETRACHLORIDE	11	0	0	11	0	0	5	0	0	2	0	0	9	0	0
	1,2 DICHLOROPROPANE	11	0	0	11	0	0	5	0	0	2	0	0	9	0	0
	TRICHLOROETHYLENE	11	0	0	11	0	0	5	0	0	2	0	0	9	0	0
	DICHLOROBROMOMETHANE	11	1	2	11	11	0	5	5	0	2	2	0	9	9	0
	112 TRICHLOROETHANE	11	0	0	11	0	0	5	0	0	2	0	0	9	0	0
	CHLORODIBROMOMETHANE	11	1	1	11	11	0	5	5	0	2	2	0	9	9	0
	T-CHLOROETHYLENE	11	0	0	10	0	1	5	0	0	2	0	0	9	0	0
	BROMOFORM	11	0	0	11	0	11	5	0	5	2	0	2	9	0	9
	1122 T-CHLOROETHANE	11	0	0	11	0	0	5	0	0	2	0	0	9	0	0
	CHLOROBENZENE	11	0	0	11	0	0	5	0	0	2	0	0	9	0	0
	1,4 DICHLOROBENZENE	11	0	0	11	0	0	5	0	0	2	0	0	9	0	0

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP)

SUMMARY TABLE OF RESULTS (1988)

SCAN	PARAMETER	SITE RAW TOTAL	RAW POSITIVE	RAW TRACE	TREATED TOTAL	TREATED POSITIVE	TREATED TRACE	SITE 1 TOTAL	SITE 1 POSITIVE	SITE 1 TRACE	SITE 3 TOTAL	SITE 3 POSITIVE	SITE 3 TRACE	SITE 2 TOTAL	SITE 2 POSITIVE	SITE 2 TRACE
VOLATILES	1,3 DICHLOROBENZENE	11	0	0	11	0	0	5	0	0	2	0	0	9	0	0
	1,2 DICHLOROBENZENE	11	0	0	11	0	0	5	0	0	2	0	0	9	0	0
	TRIFLUOROCHLOROTOLUE	5	0	0	5	0	0	5	0	0	.	.	.	4	0	0
	ETHLYENE DIBROMIDE	11	0	0	11	0	0	5	0	0	2	0	0	9	0	0
	TOTL TRIHALOMETHANES	11	1	3	11	11	0	5	5	0	2	2	0	9	9	0
*TOTAL SCAN VOLATILES		316	6	18	315	47	29	144	21	17	58	8	6	258	38	19
*TOTAL GROUP ORGANIC		1129	7	36	1163	50	49	420	21	21	154	8	8	761	38	26
TOTAL		1743	421	168	1803	450	183	998	437	116	349	142	48	1729	718	194

KEY TO TABLE 5 and 6

A ONTARIO DRINKING WATER OBJECTIVES (ODWO)
1. Maximum Acceptable Concentration (MAC)
1+. MAC for Total Trihalomethanes
1*. MAC for Bacteriological Analyses
Poor water quality is indicated when :
- total coliform counts > 0 < 5
- P/A Bottle Test is present after 48 hours
- Aeromonas organisms are detected in more than 25% of samples in a single submission or in successive submissions from the same sampling site
- Pseudomonas Aeruginosa, Staphylococcus Aureus and members of the Fecal Streptococcus group should not be detected in any sample
- Standard Plate Count should not exceed 500 organisms per ml at 35 ^{0}C within 48 hours

2. Interim Maximum Acceptable Concentration (IMAC)
3. Maximum Desirable Concentration (MDC)
4. Aesthetic or Recommended Operational Guideline
- hardness levels between 80 and 100 mg/L as calcium carbonate are considered to provide an acceptable balance between corrosion and incrustation, water supplies with a hardness >200 mg/L are considered poor and those in excess of 500 mg/L are unacceptable.

B HEALTH & WELFARE CANADA (H&W)
1. Maximum Acceptable Concentration (MAC)
2. Proposed MAC
3. Interim MAC
4. Aesthetic Objective (AO) (for xylenes, the AO is a total)

C WORLD HEALTH ORGANIZATION (WHO)
1. Guideline Value (GV)
2. Tentative GV
3. Aesthetic GV

D US ENVIRONMENTAL PROTECTION AGENCY (EPA)
1. Maximum Contaminant Level (MCL)
2. Suggested No-Adverse Effect Level (SNAEL)
3. Lifetime Health Advisory
4. EPA Ambient Water Quality Criteria

F EUROPEAN ECONOMIC COMMUNITY (EEC)
1. Health Related Guideline Level
2. Aesthetic Guideline Level
3. Maximum Admissable Concentration (MADC)

G CALIFORNIA STATE DEPARTMENT OF HEALTH-GUIDELINE VALUE

H USSR MAXIMUM PERMISSIBLE CONCENTRATION

I NEW YORK STATE AMBIENT WATER GUIDELINE

N/A NONE AVAILABLE

INTERPRETATION OF DATA

The interpretation of analytical results that are obtained from measurements near the limit of detection of the measurement process is subject to greater uncertainty than those at higher concentrations. The principle areas of concern relate to whether the substance has actually been detected, whether it has been properly identified, and whether it is an artifact of the measurement process. In other words, false positives can be caused by the instrumentation or the test procedures used, when in fact these compounds are not present in the sample.

There are several methods to treat data from such measurements:
1. Exclude the low-level data because of this uncertainty factor. However, studies of long-term environmental trends and modelling may be adversely affected by exclusion of such data.
2. Qualify these data so the user is aware of the greater uncertainty associated with their use.

For the Drinking Water Surveillance Program, measurements near the limit of detection of the measurement process are reported qualified by the code "<T". Results quantified by "W" indicate a zero measurement. These results are reported for purposes of modelling and long-term trend analysis and no significance should be attributed to a single determination of a substance below "T" (a single determination may well be a false positive). Repeat analysis or additional data are needed before it can be stated with certainty that the substance in question was truly present. On the other hand, it is less likely that repeated detection of a substance at or near the limit of detection at a specific location is solely due to an artifact in the measurement system, and more likely represents a true positive. However the average of such data is still only an estimate of the amount of substance present subject to the possible biases of the method used.

LABORATORY RESULTS, REMARK DESCRIPTIONS

.	No Sample Taken
BDL	Below Minimum Measurable Amount
<T	Greater Than Detection Limit But Not Confident (SEE INTERPRETATION OF RESULTS ABOVE)
>	Results Are Greater Than The Upper Limit
<=>	Approximate Result
!AW	No Data: Analysis Withdrawn
!CR	No Data: Could Not Confirm By Reanalysis
!CS	No Data: Contamination Suspected
!IL	No Data: Sample Incorrectly Labelled
!IS	No Data: Insufficient Sample
!LA	No Data: Laboratory Accident

!LD	No Data: Test Queued After Sample Discarded
!NA	No Data: No Authorization To Perform Reanalysis
!NP	No Data: No Procedure
!NR	No Data: Sample Not Received
!OP	No Data: Obscured Plate
!QU	No Data: Quality Control Unacceptable
!PE	No Data: Procedural Error - Sample Discarded
!PH	No Data: Sample pH Outside Valid Range
!RE	No Data: Received Empty
!RO	No Data: See Attached Report (no numeric results)
!SM	No Data: Sample Missing
!SS	No Data: Send Separate Sample Properly Preserved
!UI	No Data: Indeterminant Interference
!TX	No Data: Time Expired
A3C	Approximate, Total Count Exceeded 300 Colonies
APL	Additional Peak, Large, Not Priority Pollutant
APS	Additional Peak, Less Than, Not Priority Pollutant
CIC	Possible Contamination, Improper Cap
CRO	Calculated Result Only
PPS	Test Performed On Preserved Sample
RMP	P and M-Xylene Not Separated
RRV	Rerun Verification
RVU	Reported Value Unusual
SPS	Several Peaks, Small, Not Priority Pollutant
UAL	Unreliable: Sample Age Exceeds Normal Limit
UCR	Unreliable: Could Not Confirm By Reanalysis
UCS	Unreliable: Contamination Suspected
UIN	Unreliable: Indeterminant Interference
XP	Positive After X Number of Hours
T# (T06)	Result Taken After # Hours

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1988

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM					
			SITE 1		SITE 2		SITE 3	
	RAW	TREATED	STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
BACTERIOLOGICAL								
FECAL COLIFORM MF (CT/100ML)			DET'N LIMIT = 0		GUIDELINE = 0 (A1)			
JAN	0	.	.	.	.	.	.	.
FEB	5	.	.	.	.	.	.	.
MAR	1	.	.	.	.	.	.	.
APR	0	.	.	.	.	.	.	.
MAY	1	.	.	.	.	.	.	.
JUN	0	.	.		.	.	.	.
JUL	0	.	.	.	.	.	.	.
AUG	0	.	.	.	.	.	.	.
SEP	2 T48	.	.	.	.	.	.	.
OCT	1 T48	.	.	.	.	.	.	.
NOV	7 T24	.	.	.	.	.	.	.
DEC	3 T24	.	.	.	.	.	.	.
STANDRD PLATE CNT MF (CT/ML)			DET'N LIMIT = 0		GUIDELINE = 500/ML (A1)			
JAN	16	0	.	6	.	.	.	1
FEB	35	0	.	1	.	.	.	2
MAR	420	1	.	4	.	.	.	2
APR	1500	0	.	0	.	.	.	0
MAY	103	2	.	2	.	.	.	1
JUN	14	1	.	5	.	.	.	0
JUL	420	16	.	.	.	.	.	!LA
AUG	33	0	.	.	.	.	.	11
SEP	.	0 <=>	.	.	.	.	.	0 <=>
OCT	.	BDL	.	.	.	.	.	.
NOV	.	2 <=>	.	.	.	2 <=>	.	5 <=>

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1988

SITE TYPE	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM					
	RAW	TREATED	SITE 1		SITE 2		SITE 3	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
DEC	.	2 <#>	.	.	.	5 <#>	.	9 <#>
P/A BOTTLE ( )			DET'N LIMIT = 0		GUIDELINE = 0 (A1*)			
JAN	.	0	.	0	.	.	.	0
FEB	.	0	.	0	.	.	.	0
MAR	.	0	.	0	.	.	.	0
APR	.	0	.	0	.	.	.	0
MAY	.	0	.	0	.	.	.	0
JUN	.	0	.	0	.	.	.	0
JUL	.	0	.	.	.	.	.	0
AUG	.	0	.	.	.	.	.	0
TOTAL COLIFORM MF (CT/100ML)			DET'N LIMIT = 0		GUIDELINE = 5/100ML(A1)			
JAN	17	0	.	0	.	.	.	0
FEB	75 A3C	0	.	0	.	.	.	0
MAR	104	1	.	0	.	.	.	0
APR	0	0	.	0	.	.	.	0
MAY	4	0	.	0	.	.	.	0
JUN	BDL	0	.	0	.	.	.	0
JUL	4 A3C	0	.	.	.	.	.	ILA
AUG	178	0	.	.	.	.	.	0
SEP	12 A3C	0 T48	.	.	.	.	.	0 T24
OCT	4 A3C	0 T48	.	.	.	.	.	.
NOV	91 A3C	0 T24	.	.	.	0 T06	.	0 T06
DEC	84 T24	0 T24	.	.	.	0 T06	.	0 T06

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1988

		WATER TREATMENT PLANT				DISTRIBUTION SYSTEM			
	SITE			SITE 1		SITE 2		SITE 3	
	TYPE	RAW	TREATED	STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
T COLIFORM BCKGRD MF (CT/100ML)			DET'N LIMIT = 0		GUIDELINE = N/A				
JAN		29	0	.	1	.	.	.	0
FEB		340	0	.	0	.	.	.	0
MAR		500	4	.	0	.	.	.	0
APR		20000	0	.	0	.	.	.	0
MAY		14	0	.	0	.	.	.	0
JUN		4	0	.	0	.	.	.	0
JUL		1680	0	.	.	.	.	.	ILA
AUG		206	0	.	.	.	.	.	0
SEP		580	A3C 1 T48	.	.	.	.	.	1 T24
OCT		2400	> 0 T48	.	.	.	.	.	.
NOV		720	A3C 0 T24	.	.	.	0 T06	.	0 T06
DEC		370	T24 0 T24	.	.	.	1 T06	.	0 T06

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1988

		WATER TREATMENT PLANT			DISTRIBUTION SYSTEM			
	SITE TYPE RAW	TREATED	SITE 1		SITE 2		SITE 3	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
CHEMISTRY (FLD)								
FLD CHLORINE (COMB) ( )		DET'N LIMIT = N/A		GUIDELINE = N/A				
JAN	.	.780	.350	.400	.	.	.100	.200
FEB	.	.550	.250	.550	.	.	.600	.800
MAR	.	.950	.120	.360	.	.	.480	.500
APR	.	.570	.070	.280	.	.	.600	.600
MAY	.	.650	.100	.300	.	.	.050	.350
JUN	.	.750	.100	.400	.	.	.060	.070
JUL	.	.900	.	.	.	.	.	.600
AUG	.	.750	.	.	.	.	.350	.380
SEP	.	.550	.	.	.	.	.350	.350
OCT	.	.600	.	.	.	.	.	.
NOV	.	.270	.	.	.050	.050	.200	.200
DEC	.	.550	.	.	.200	.800	.	.800
FLD CHLORINE FREE ( )		DET'N LIMIT = N/A		GUIDELINE = N/A				
JAN	.	.	.100	.100	.	.	.	.
FEB	.	.250	.	.	.	.	.	.
NOV	.	.380	.	.	.	.400	.200	.400
DEC	.	.250	.	.	.	.	.	.
FLD CHLORINE (TOTAL) ( )		DET'N LIMIT = N/A		GUIDELINE = N/A				
JAN	.	.780	.450	.500	.	.	.100	.200
FEB	.	.800	.250	.550	.	.	.600	.800
MAR	.	.950	.120	.360	.	.	.480	.500
APR	.	.570	.070	.280	.	.	.600	.600

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1988

SITE TYPE	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM					
	RAW	TREATED	SITE 1		SITE 2		SITE 3	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
MAY	.	.650	.100	.300	.	.	.050	.350
JUN	.	.750	.100	.400	.	.	.060	.070
JUL	.	.900	.	.	.	.	.	.600
AUG	.	.750	.	.	.	.	.350	.380
SEP	.	.550	.	.	.	.	.350	.350
OCT	.	.600	.	.	.	.	.	.
NOV	.	.650	.	.	.150	.450	.400	.600
DEC	.	.800	.	.	.200	.800	.	.800
FLD PH (UNITLESS)			DET'N LIMIT = N/A		GUIDELINE = 6.5-8.5(A4)			
JAN	8.020	7.610	7.760	7.690	.	.	7.550	7.460
FEB	8.020	7.470	7.390	7.460	.	.	7.620	7.220
MAR	8.110	7.600	7.800	7.780	.	.	7.630	7.560
APR	8.090	7.580	7.680	7.710	.	.	7.640	7.640
MAY	8.140	7.490	7.720	7.730	.	.	7.630	7.580
JUN	8.040	7.450	7.420	7.390	.	.	7.520	7.450
JUL	8.290	7.640	.	.	.	.	.	7.740
AUG	7.890	7.270	.	.	.	.	7.290	7.300
SEP	7.980	7.470	.	.	.	.	7.580	7.550
OCT	7.970	7.470	.	.	.	.	.	.
NOV	8.030	7.350	.	.	7.480	7.450	7.480	7.450
DEC	8.050	7.600	.	.	7.500	7.500	.	7.500
FLD TEMPERATURE (DEG.C)			DET'N LIMIT = N/A		GUIDELINE = 15 (A1)			
JAN	4.500	3.600	12.000	8.000	.	.	12.000	7.000
FEB	2.000	3.000	14.000	7.000	.	.	10.000	5.000

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1988

SITE TYPE	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM					
			SITE 1		SITE 2		SITE 3	
	RAW	TREATED	STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
MAR	2.500	2.800	13.000	7.000	.	.	9.500	4.500
APR	3.900	4.000	14.000	9.000	.	.	11.000	7.000
MAY	5.800	6.000	16.000	12.000	.	.	13.000	10.000
JUN	4.700	5.000	18.000	15.000	.	.	14.500	10.000
JUL	9.300	9.500	.	.	.	.	.	14.000
AUG	11.500	11.600	.	.	.	.	19.000	16.500
SEP	9.600	9.600	.	.	.	.	18.000	13.500
OCT	6.000	7.000	.	.	.	.	.	.
NOV	5.000	5.500	.	.	18.000	10.000	14.000	10.000
DEC	4.000	6.000	.	.	22.000	8.000	.	8.500
FLD TURBIDITY (FTU)			DET'N LIMIT = N/A		GUIDELINE = 1.0 (A1)			
JAN	.860	.190	.810	.680	.	.	.490	.500
FEB	.950	.110	.500	.520	.	.	.550	.700
MAR	1.500	.240	.650	.480	.	.	.240	.240
APR	.540	.180	.550	.370	.	.	.230	.280
MAY	.670	.180	.550	.350	.	.	.260	.240
JUN	.720	.160	.290	.160	.	.	.160	.150
JUL	.540	.220	.	.	.	.	.	.390
AUG	.800	.130	.	.	.	.	.210	.240
SEP	.950	.120	.	.	.	.	.220	.300
OCT	.510	.200	.	.	.	.	.	.
NOV	2.300	.120	.	.	.450	.500	.580	.530
DEC	.650	.120	.	.	.160	.130	.	.170

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1988

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM					
SITE TYPE	RAW	TREATED	SITE 1		SITE 2		SITE 3	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
CHEMISTRY (LAB)								
ALKALINITY (MG/L)			DET'N LIMIT = .200		GUIDELINE = 30-500 (A4)			
JAN	98.000	94.200	95.400	95.100	.	.	91.900	92.700
FEB	98.900	92.900	94.700	94.100	.	.	93.400	93.500
MAR	101.800	94.000	96.700	96.000	.	.	94.800	95.000
APR	101.300	95.900	96.900	96.400	.	.	93.600	97.000
MAY	102.500	95.000	97.700	98.200	.	.	96.500	96.900
JUN	102.600	93.900	96.100	95.100	.	.	94.100	94.600
JUL	102.200	96.900	.	.	.	.	.	92.900
AUG	100.900	92.600	.	.	.	.	92.500	94.500
SEP	102.200	96.000	.	.	.	.	93.800	94.900
OCT	102.600	96.100	.	.	.	.	.	.
NOV	101.400	92.900	.	.	94.000	93.800	92.400	92.600
DEC	102.100	96.100	.	.	98.700	97.600	.	97.000
CALCIUM (MG/L)			DET'N LIMIT = .100		GUIDELINE = 100 (F2)			
JAN	41.200	42.200	41.400	41.400	.	.	42.000	42.200
FEB	39.600	38.800	39.400	41.400	.	.	39.800	38.800
MAR	39.600	39.200	39.800	39.800	.	.	39.600	38.600
APR	39.200	40.200	41.200	41.200	.	.	39.800	40.600
MAY	39.400	39.600	39.800	39.600	.	.	38.800	39.400
JUN	38.200	38.400	38.800	38.400	.	.	39.000	39.200
JUL	40.800	40.600	.	.	.	.	.	40.200
AUG	41.400	40.600	.	.	.	.	41.600	40.600
SEP	40.000	40.400	.	.	.	.	38.800	39.000
OCT	41.800	40.200	.	.	.	.	.	.
NOV	42.600	42.800	.	.	42.000	42.200	42.400	42.800

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1988

	SITE TYPE	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM					
		RAW	TREATED	SITE 1		SITE 2		SITE 3	
				STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
DEC		42.800	42.400	.	.	42.400	43.600	.	42.900
CHLORIDE (MG/L)				DET'N LIMIT = .200		GUIDELINE = 250 (A3)			
JAN		23.600	25.400	25.000	25.000	.	.	25.900	25.800
FEB		23.300	25.200	25.400	25.400	.	.	25.100	25.000
MAR		26.100	28.400	26.800	27.200	.	.	27.100	28.000
APR		23.800	25.600	26.100	26.000	.	.	25.800	25.600
MAY		24.000	25.700	26.000	26.100	.	.	25.500	26.200
JUN		23.300	25.800	24.700	25.500	.	.	25.800	25.600
JUL		23.400	26.000	.	.	.	.	.	24.500
AUG		21.900	24.800	.	.	.	.	25.900	25.900
SEP		23.100	25.100	.	.	.	.	25.000	24.900
OCT		22.900	24.600	.	.	.	.	.	.
NOV		23.000	25.600	.	.	26.400	26.100	25.900	25.900
DEC		23.400	25.700	.	.	25.300	25.500	.	25.700
COLOUR (T.U)				DET'N LIMIT = .5		GUIDELINE = 5.0 (A3)			
JAN		1.000 <T	.500 <T	3.000	3.000	.	.	2.500	2.000 <T
FEB		1.500 <T	.500 <T	3.000	2.500	.	.	1.500 <T	1.500 <T
MAR		1.500 <T	BDL	3.500	2.500	.	.	1.000 <T	1.000 <T
APR		1.500 <T	1.000 <T	4.000	2.500	.	.	1.500 <T	1.000 <T
MAY		2.000 <T	1.000 <T	4.500	3.000	.	.	1.500 <T	3.000
JUN		1.500 <T	1.000 <T	2.500	1.500 <T	.	.	1.000 <T	1.000 <T
JUL		2.000 <T	1.000 <T	.	.	.	.	.	.500 <T
AUG		1.500 <T	.500 <T	.	.	.	.	1.500 <T	1.500 <T
SEP		2.000 <T	1.000 <T	.	.	.	.	2.500	3.000

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1988

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM					
SITE TYPE	RAW	TREATED	SITE 1		SITE 2		SITE 3	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
OCT	2.000 <T	1.000 <T	.	.	.	.	.	.
NOV	1.500 <T	.500 <T	.	.	.500 <T	.500 <T	1.000 <T	1.000 <T
DEC	1.500 <T	.500 <T	.	.	1.000 <T	1.000 <T	.	1.000 <T
CONDUCTIVITY (UMHO/CM)			DET'N LIMIT = 1		GUIDELINE = 400 (F2)			
JAN	327	336	337	337	.	.	337	340
FEB	329	330	335	334	.	.	332	330
MAR	334	335	335	334	.	.	337	338
APR	322	324	328	336	.	.	334	327
MAY	330	334	334	337	.	.	335	334
JUN	331	335	341	338	.	.	337	338
JUL	328	332	.	.	.	.	.	333
AUG	323	330	.	.	.	.	331	334
SEP	327	331	.	.	.	.	329	330
OCT	328	331	.	.	.	.	.	.
NOV	329	334	.	.	338	336	333	333
DEC	327	333	.	.	334	334	.	333
FLUORIDE (MG/L)			DET'N LIMIT = .01		GUIDELINE = 2.400 (A1)			
JAN	.120	1.260	1.280	1.260	.	.	1.180	1.160
FEB	.140	1.260	1.180	1.220	.	.	1.240	1.240
MAR	.150	1.230	1.240	1.220	.	.	1.210	1.240
APR	.130	1.200	1.230	1.220	.	.	1.220	1.210
MAY	.130	1.180	1.210	1.200	.	.	1.160	1.170
JUN	.120	1.190	1.210	1.210	.	.	1.170	1.190 EDC
JUL	.120	.170	.	.	.	.	.	.160

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1988

		WATER TREATMENT PLANT		DISTRIBUTION SYSTEM					
	SITE TYPE	RAW	TREATED	SITE 1		SITE 2		SITE 3	
				STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
AUG		.130	1.270	.	.	.	.	1.260	1.250
SEP		.120	1.220	.	.	.	.	1.320	1.300
OCT		.140	1.380	.	.	.	.	.	.
NOV		.120	1.180	.	.	1.240	1.200	1.240	1.200
DEC		.140	1.180	.	.	1.200	1.180	.	1.180
HARDNESS (MG/L)				DET'N LIMIT = .500		GUIDELINE = 80-100 (A4)			
JAN		139.000	141.000	138.000	138.000	.	.	140.000	140.000
FEB		132.000	131.000	132.000	137.000	.	.	133.000	130.000
MAR		133.000	132.000	134.000	133.000	.	.	133.000	131.000
APR		132.000	135.000	135.000	137.000	.	.	134.000	136.000
MAY		131.000	130.000	132.000	131.000	.	.	130.000	131.000
JUN		129.000	129.000	130.000	129.000	.	.	131.000	131.000
JUL		135.000	135.000	.	.	.	.	.	135.000
AUG		138.000	137.000	.	.	.	.	140.000	136.000
SEP		135.000	135.000	.	.	.	.	132.000	132.000
OCT		139.000	135.000	.	.	.	.	.	.
NOV		142.000	142.000	.	.	140.000	141.000	142.000	142.000
DEC		144.400	142.900	.	.	142.900	145.000	.	144.000
IONCAL (DMNSLESS)				DET'N LIMIT = N/A		GUIDELINE = N/A			
JAN		.000 NAF	.000 NAF	.000 NAF	.000 NAF	.	.	.000 NAF	.000 NAF
FEB		.000 NAF	.000 NAF	.000 NAF	.000 NAF	.	.	.000 NAF	.000 NAF
MAR		.000 NAF	.000 NAF	.000 NAF	.000 NAF	.	.	.000 NAF	.000 NAF
APR		.000 NAF	.000 NAF	.000 NAF	.000 NAF	.	.	.000 NAF	.000 NAF
MAY		.000 NAF	.000 NAF	.000 NAF	.000 NAF	.	.	.000 NAF	.000 NAF

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1988

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM					
SITE			SITE 1		SITE 2		SITE 3	
TYPE	RAW	TREATED	STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
JUN	.000 NAF	.000 NAF	.000 NAF	.000 NAF	.	.	.000 NAF	.000 NAF
JUL	2.052	1.673	.	.	.	.	.	1.936
AUG	2.438	2.486	.	.	.	.	3.361	.042
SEP	2.379	.307	.	.	.	.	1.997	1.667
OCT	.834	.956	.	.	.	.	.	.
NOV	3.220	5.189	.	.	2.793	3.513	4.840	5.240
DEC	1.518	1.943	.	.	.826	2.791	.	2.580
LANGELIERS INDEX (DMNSLESS)			DET'N LIMIT = N/A		GUIDELINE = N/A			
JAN	.422 NAF	.255 NAF	.242 NAF	.280 NAF	.	.	.242 NAF	.207 NAF
FEB	.339 NAF	.133 NAF	.127 NAF	.126 NAF	.	.	.096 NAF	.095 NAF
MAR	.421 NAF	.292 NAF	.281 NAF	.338 NAF	.	.	.240 NAF	.269 NAF
APR	.385 NAF	.282 NAF	.327 NAF	.324 NAF	.	.	.317 NAF	.331 NAF
MAY	.462 NAF	.211 NAF	.305 NAF	.275 NAF	.	.	.249 NAF	.267 NAF
JUN	.509 NAF	.322 NAF	.326 NAF	.277 NAF	.	.	.380 NAF	.344 NAF
JUL	.456	.270	.	.	.	.	.	.188
AUG	.217	-.079	.	.	.	.	-.039	-.081
SEP	.398	.204	.	.	.	.	.317	.214
OCT	.488	.383	.	.	.	.	.	.
NOV	.391	.085	.	.	.001	.133	.059	.074
DEC	.467	.196	.	.	.287	.364	.	.284
MAGNESIUM (MG/L)			DET'N LIMIT = .050		GUIDELINE = 30 (F2)			
JAN	8.800	8.800	8.300	8.400	.	.	8.500	8.400
FEB	8.000	8.400	8.200	8.100	.	.	8.200	8.000
MAR	8.400	8.300	8.400	8.300	.	.	8.300	8.300

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1988

	SITE TYPE	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM					
		RAW	TREATED	SITE 1		SITE 2		SITE 3	
				STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
APR		8.300	8.400	7.700	8.300	.	.	8.400	8.400
MAY		7.900	7.500	7.900	7.800	.	.	8.100	7.900
JUN		8.100	8.100	8.200	8.200	.	.	8.100	8.100
JUL		8.200	8.300	.	.	.	.	.	8.400
AUG		8.500	8.500	.	.	.	.	8.700	8.500
SEP		8.500	8.400	.	.	.	.	8.400	8.500
OCT		8.400	8.500	.	.	.	.	.	.
NOV		8.700	8.500	.	.	8.600	8.500	8.700	8.600
DEC		9.100	9.000	.	.	8.900	8.800	.	8.900
SODIUM (MG/L)				DET'N LIMIT = .200		GUIDELINE = 200 (C3)			
JAN		12.400	12.600	12.600	12.600	.	.	12.400	12.600
FEB		12.400	12.200	12.600	12.400	.	.	12.400	12.200
MAR		13.400	13.600	13.000	13.200	.	.	13.400	13.400
APR		12.000	12.200	13.400	12.600	.	.	12.400	12.200
MAY		12.600	12.800	12.400	12.600	.	.	12.600	12.600
JUN		11.200	11.200	11.000	11.200	.	.	11.200	11.000
JUL		11.800	12.000	.	.	.	.	.	12.000
AUG		12.000	11.800	.	.	.	.	11.800	11.800
SEP		12.000	12.200	.	.	.	.	11.600	11.800
OCT		12.000	12.000	.	.	.	.	.	.
NOV		12.000	12.200	.	.	12.400	12.400	12.200	12.200
DEC		12.000	12.000	.	.	12.000	12.200	.	12.600
AMMONIUM TOTAL (MG/L)				DET'N LIMIT = 0.002		GUIDELINE = .05 (F2)			
JAN		.006 <T	.138	.096	.098	.	.	.010	.020

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1988

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM					
SITE			SITE 1		SITE 2		SITE 3	
TYPE	RAW	TREATED	STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
FEB	.004 <T	.126	.098	.100	.	.	.092	.106
MAR	.060	.128	.094	.124	.	.	.130	.138
APR	.018	.122	.034	.106	.	.	.112	.128
MAY	.040	.124	.018	.070	.	.	.118	.132
JUN	.008 <T	.128	.018	.114	.	.	.122	.128
JUL	.024	.126	.	.	.	.	.	.116
AUG	.024	.096	.	.	.	.	.102	.110
SEP	.018	.132	.	.	.	.	.098	.108
OCT	BDL	BDL	.	.	.	.	.	.
NOV	.004 <T	.012	.	.	.012	.008 <T	.016	.010
DEC	.016	.126	.	.	.142	.132	.	.144
NITRITE (MG/L)			DET'N LIMIT = 0.001		GUIDELINE = 1.000 (A1)			
JAN	.001 <T	.001 <T	.012	.011	.	.	.013	.001 <T
FEB	.002 <T	.001 <T	.005	.005	.	.	.003 <T	.001 <T
MAR	.020	.011	.055	.017	.	.	.004 <T	.007
APR	.002 <T	.001 <T	.094	.012	.	.	.018	.004 <T
MAY	.004 <T	.002 <T	.105	.039	.	.	.009	.005
JUN	.004 <T	.002 <T	.115	.007	.	.	.006	.003 <T
JUL	.004 <T	.002 <T	.	.	.	.	.	.007
AUG	.003 <T	.002 <T	.	.	.	.	.007	.004 <T
SEP	.004 <T	.003 <T	.	.	.	.	.013	.013
OCT	.006	.004 <T	.	.	.	.	.	.
NOV	.006	.006	.	.	.004 <T	.004 <T	.004 <T	.004 <T
DEC	.004 <T	.004 <T	.	.	.007	.004 <T	.	.005
TOTAL NITRATES (MG/L)			DET'N LIMIT = .020		GUIDELINE = 10.000 (A1)			

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1988

SITE TYPE	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM					
	RAW	TREATED	SITE 1		SITE 2		SITE 3	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
JAN	.395	.400	.435	.440	.	.	.420	.400
FEB	.405	.410	.435	.435	.	.	.425	.405
MAR	.420	.420	.475	.455	.	.	.415	.415
APR	.380	.375	.460	.400	.	.	.395	.380
MAY	.360	.370	.470	.440	.	.	.380	.370
JUN	.360	.370	.490	.400	.	.	.380	.370
JUL	.300	.300	.	.	.	.	.	.310
AUG	.315	.315	.	.	.	.	.350	.345
SEP	.265	.290	.	.	.	.	.380	.365
OCT	.345	.365	.	.	.	.	.	.
NOV	.395	.415	.	.	.405	.410	.400	.405
DEC	.420	.435	.	.	.425	.420	.	.425
NITROGEN TOT KJELD (MG/L)			DET'N LIMIT = .020		GUIDELINE = N/A			
JAN	.160	.250	.230	.300	.	.	.200	.160
FEB	.180	.250	.240	.230	.	.	.230	.250
MAR	.190	.270	.150	.250	.	.	.230	.310
APR	.210	.300	.180	.230	.	.	.170	.300
MAY	.270	.320	.210	.240	.	.	.260	.330
JUN	.200	.290	.180	.270	.	.	.270	.290
JUL	.290	.320	.	.	.	.	.	.290
AUG	.250	.310	.	.	.	.	.310	.290
SEP	.250	.320	.	.	.	.	.280	.270
OCT	.180	.220	.	.	.	.	.	.
NOV	.230	.150	.	.	.160	.140	.170	.140
DEC	.190	.260	.	.	.380	.390	.	.280

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1988

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM					
SITE TYPE	RAW	TREATED	SITE 1		SITE 2		SITE 3	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
PH (DIMNSLESS)			DET'N LIMIT = N/A		GUIDELINE = 6.5-8.5(A4)			
JAN	8.260	8.100	8.090	8.130	.	.	8.100	8.060
FEB	8.190	8.020	8.000	7.980	.	.	7.970	7.980
MAR	8.260	8.170	8.140	8.200	.	.	8.110	8.150
APR	8.230	8.140	8.170	8.170	.	.	8.190	8.180
MAY	8.300	8.080	8.160	8.130	.	.	8.120	8.130
JUN	8.360	8.210	8.200	8.160	.	.	8.260	8.220
JUL	8.280	8.120	.	.	.	.	.	8.060
AUG	8.040	7.790	.	.	.	.	7.820	7.780
SEP	8.230	8.060	.	.	.	.	8.200	8.090
OCT	8.300	8.240	.	.	.	.	.	.
NOV	8.200	7.930	.	.	7.850	7.980	7.910	7.920
DEC	8.270	8.030	.	.	8.110	8.180	.	8.110
PHOSPHORUS FIL REACT (MG/L)			DET'N LIMIT = .0005		GUIDELINE = N/A			
JAN	.003	.003	.	.	.	.	.	.
FEB	.002	.003	.	.	.	.	.	.
MAR	.002 <T	.002	.	.	.	.	.	.
APR	.002	.002 <T	.	.	.	.	.	.
MAY	.003	.003	.	.	.	.	.	.
JUN	.001 <T	.001 <T	.	.	.	.	.	.
JUL	.001 <T	.001 <T	.	.	.	.	.	.
AUG	.000 <T	.001 <T	.	.	.	.	.	.
SEP	.002 <T	.002 <T	.	.	.	.	.	.
OCT	BDL	.001 <T	.	.	.	.	.	.
NOV	.001 <T	.002 <T	.	.	.	.	.	.
DEC	.001 <T	.002 <T	.	.	.	.	.	.

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1988

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM					
SITE TYPE	RAW	TREATED	SITE 1		SITE 2		SITE 3	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
PHOSPHORUS TOTAL (MG/L)			DET'N LIMIT = .002		GUIDELINE = .40 (F2)			
JAN	.009 <T	.006 <T	.	.	.	.	.	.
FEB	.010	.006 <T	.	.	.	.	.	.
MAR	.012	.007 <T	.	.	.	.	.	.
APR	.009 <T	.005 <T	.	.	.	.	.	.
MAY	.012	.006 <T	.	.	.	.	.	.
JUN	.007 <T	.004 <T	.	.	.	.	.	.
JUL	.017	.007 <T	.	.	.	.	.	.
AUG	.002	.002	.	.	.	.	.	.
SEP	.011	.006 <T	.	.	.	.	.	.
OCT	.007 <T	.004 <T	.	.	.	.	.	.
NOV	.018	.005 <T	.	.	.	.	.	.
DEC	.010	.005 <T	.	.	.	.	.	.
SULPHATE ( )			DET'N LIMIT = .200		GUIDELINE = 500. (A3)			
JUL	27.200	28.900	.	.	.	.	.	28.600
AUG	26.570	28.520	.	.	.	.	28.820	29.000
SEP	27.900	28.300	.	.	.	.	28.500	28.500
OCT	29.000	29.600	.	.	.	.	.	.
NOV	26.620	28.420	.	.	28.830	28.380	28.910	28.630
DEC	30.000	31.000	.	.	30.500	31.000	.	31.000
TURBIDITY (FTU)			DET'N LIMIT = .02		GUIDELINE = 1.00 (A1)			
JAN	.900	.110	.410	.410	.	.	.330	.280
FEB	1.400	.130	.400	.440	.	.	.290	.220
MAR	1.500	.080	.470	.300	.	.	.180	.170

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1988

SITE TYPE	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM					
	RAW	TREATED	SITE 1		SITE 2		SITE 3	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
APR	.640	.070 <T	.460	.300	.	.	.220	.210
MAY	.980	.220	.410	.520	.	.	.220	.700
JUN	.750	.090	.240	.150	.	.	.200	.100
JUL	.840	.480	.	.	.	.	.	.560
AUG	1.500	.210	.	.	.	.	.330	.270
SEP	1.220	.760	.	.	.	.	.500	.640
OCT	.940	.250	.	.	.	.	.	.
NOV	3.100	.860	.	.	.190	.250 <T	.200 <T	.260
DEC	1.130	.190 <T	.	.	.350	.220 <T	.	.260

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1988

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM					
SITE	RAW	TREATED	SITE 1		SITE 2		SITE 3	
TYPE			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
METALS								
SILVER (UG/L)			DET'N LIMIT = .020		GUIDELINE = 50. (A1)			
JAN	.050 <T	.040 <T	.020 <T	BDL	.	.	BDL	.020 <T
FEB	.020 <T	.030 <T	.060 <T	.030 <T	.	.	.030 <T	.030 <T
MAR	.030 <T	.020 <T	.020 <T	BDL	.	.	BDL	BDL
APR	BDL	.180 <T	.110 <T	BDL	.	.	BDL	BDL
MAY	BDL	BDL	BDL	BDL	.	.	BDL	BDL
JUN	.090 <T	.090 <T	.130 <T	.040 <T	.	.	BDL	BDL
JUL	BDL	BDL	.	.	.	.	.	BDL
AUG	BDL	BDL	.	.	.	.	.030 <T	BDL
SEP	.030 <T	BDL	.	.	.	.	.060 <T	BDL
OCT	BDL	BDL	.	.	.	.	.	.
NOV	BDL	.120 <T	.	.	.030 <T	.040 <T	.060 <T	.040 <T
DEC	BDL	.190 <T	.	.	BDL	BDL	.	.070 <T
ALUMINUM (UG/L)			DET'N LIMIT = .050		GUIDELINE = 100.(A4)			
JAN	14.000	46.000	41.000	41.000	.	.	59.000	54.000
FEB	18.000	51.000	37.000	39.000	.	.	42.000	40.000
MAR	25.000	56.000	49.000	47.000	.	.	48.000	47.000
APR	8.000	57.000	66.000	56.000	.	.	64.000	55.000
MAY	10.000	73.000	76.000	71.000	.	.	74.000	130.000
JUN	13.000	65.000	57.000	54.000	.	.	59.000	56.000
JUL	5.000	110.000	.	.	.	.	.	110.000
AUG	3.900	73.000	.	.	.	.	58.000	54.000
SEP	5.600	79.000	.	.	.	.	66.000	72.000
OCT	6.500	54.000	.	.	.	.	.	.
NOV	37.000	55.000	.	.	49.000	50.000	42.000	42.000

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1988

	SITE TYPE	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM					
		RAW	TREATED	SITE 1		SITE 2		SITE 3	
				STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
DEC		11.000	54.000	.	.	67.000	51.000	.	50.000
ARSENIC (UG/L)				DET'N LIMIT = 0.050		GUIDELINE = 50.0 (A1)			
JAN		.970 <T	1.100	.980 <T	.920 <T	.	.	1.100	1.000
FEB		.920 <T	1.100	.940 <T	.960 <T	.	.	1.000	1.100
MAR		.500 <T	.610 <T	.660 <T	.480 <T	.	.	.570 <T	.670 <T
APR		.980 <T	1.400	1.300	1.200	.	.	1.200	1.300
MAY		.900 <T	1.100	1.300	1.000 <T	.	.	1.100	1.800
JUN		1.400	1.300	1.200	1.300	.	.	1.200	1.000 <T
JUL		1.100	1.000 <T	.	.	.	.	.	.900 <T
AUG		1.000 <T	1.300	.	.	.	.	.940 <T	.880 <T
SEP		1.400	1.400	.	.	.	.	1.300	1.700
OCT		1.000 <T	1.600	.	.	.	.	.	.
NOV		1.050	1.300	.	.	.660 <T	.930 <T	.940 <T	.830 <T
DEC		1.000 <T	1.300	.	.	1.200	1.200	.	1.200
BARIUM (UG/L)				DET'N LIMIT = 0.020		GUIDELINE = 1000. (A1)			
JAN		20.000	20.000	20.000	20.000	.	.	21.000	20.000
FEB		22.000	22.000	21.000	21.000	.	.	21.000	21.000
MAR		22.000	21.000	23.000	21.000	.	.	22.000	21.000
APR		21.000	23.000	23.000	22.000	.	.	22.000	21.000
MAY		24.000	24.000	25.000	23.000	.	.	24.000	24.000
JUN		25.000	26.000	28.000	26.000	.	.	27.000	26.000
JUL		22.000	23.000	.	.	.	.	.	23.000
AUG		23.000	23.000	.	.	.	.	22.000	22.000
SEP		22.000	22.000	.	.	.	.	23.000	22.000

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1988

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM					
SITE			SITE 1		SITE 2		SITE 3	
TYPE	RAW	TREATED	STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
OCT	23.000	22.000	.	.	.	.	.	.
NOV	25.500	25.000	.	.	24.000	24.000	24.000	23.000
DEC	24.000	23.000	.	.	24.000	23.000	.	25.000
BORON (UG/L)			DET'N LIMIT = 0.200		GUIDELINE = 5000. (A1)			
JAN	24.000	24.000	26.000	26.000	.	.	25.000	25.000
FEB	24.000	24.000	23.000	24.000	.	.	24.000	23.000
MAR	25.000	25.000	25.000	23.000	.	.	25.000	25.000
APR	22.000	25.000	26.000	26.000	.	.	24.000	24.000
MAY	22.000	23.000	20.000 <T	22.000	.	.	23.000	24.000
JUN	27.000	29.000	27.000	27.000	.	.	27.000	28.000
JUL	24.000	23.000	.	.	.	.	.	26.000
AUG	26.000	45.000	.	.	.	.	26.000	24.000
SEP	64.000	51.000	.	.	.	.	27.000	64.000
OCT	30.000	36.000	.	.	.	.	.	.
NOV	74.000	79.000	.	.	27.000	31.000	48.000	33.000
DEC	74.000	70.000	.	.	32.000	60.000	.	27.000
BERYLLIUM (UG/L)			DET'N LIMIT = 0.010		GUIDELINE = .20 (N)			
JAN	.020 <T	.010 <T	.010 <T	.020 <T	.	.	.020 <T	.010 <T
FEB	.030 <T	.020 <T	.030 <T	.020 <T	.	.	.030 <T	.020 <T
MAR	.020 <T	.030 <T	.010 <T	BDL	.	.	BDL	BDL
APR	BDL	.090 <T	BDL	BDL	.	.	BDL	BDL
MAY	BDL	BDL	BDL	BDL	.	.	BDL	BDL
JUN	BDL	BDL	BDL	BDL	.	.	BDL	BDL
JUL	BDL	BDL	.	.	.	.	.	BDL

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1988

	SITE TYPE	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM					
		RAW	TREATED	SITE 1		SITE 2		SITE 3	
				STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
AUG		.050 <T	.060 <T	.	.	.	.	BDL	BDL
SEP		.110 <T	.060 <T	.	.	.	.	030 <T	.070 <T
OCT		.040 <T	BDL	.	.	.	.	.	.
NOV		.100 <T	.120 <T	.	.	.020 <T	.030 <T	.060 <T	BDL
DEC		.160 <T	.110 <T	.	.	.040 <T	.120 <T	.	.040 <T
CADMIUM (UG/L)				DET'N LIMIT = 0.050		GUIDELINE = 5.000 (A1)			
JAN		.070 <T	BDL	.050 <T	BDL	.	.	.050 <T	BDL
FEB		BDL	.050 <T	.050 <T	.050 <T	.	.	BDL	BDL
MAR		BDL	BDL	BDL	BDL	.	.	BDL	BDL
APR		BDL	.070 <T	.090 <T	BDL	.	.	BDL	BDL
MAY		BDL	BDL	BDL	BDL	.	.	BDL	BDL
JUN		BDL	BDL	.080 <T	BDL	.	.	BDL	BDL
JUL		BDL	BDL	.	.	.	.	.	BDL
AUG		BDL	BDL	.	.	.	.	BDL	BDL
SEP		BDL	BDL	.	.	.	.	BDL	BDL
OCT		.060 <T	BDL	.	.	.	.	.	.
NOV		BDL	BDL	.	.	BDL	BDL	BDL	BDL
DEC		BDL	.060 <T	.	.	.060 <T	BDL	.	.060 <T
COBALT (UG/L)				DET'N LIMIT = 0.020		GUIDELINE = 1000 (H)			
JAN		.320 <T	.340 <T	.210 <T	.150 <T	.	.	.170 <T	.170 <T
FEB		.070 <T	.030 <T	.050 <T	.030 <T	.	.	.040 <T	.050 <T
MAR		.130 <T	.180 <T	.170 <T	.160 <T	.	.	.190 <T	.190 <T
APR		.090 <T	.070 <T	.110 <T	.080 <T	.	.	.090 <T	.080 <T
MAY		.100 <T	.120 <T	.130 <T	.120 <T	.	.	.130 <T	.120 <T

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1988

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM					
SITE	RAW	TREATED	SITE 1		SITE 2		SITE 3	
TYPE			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
JUN	.090 <T	.060 <T	.200 <T	.070 <T	.	.	.120 <T	.070 <T
JUL	.190 <T	.180 <T	.	.	.	.	.	.180 <T
AUG	.310 <T	.060 <T	.	.	.	.	.050 <T	.080 <T
SEP	.130 <T	.170 <T	.	.	.	.	.150 <T	.290 <T
OCT	32.000	.160 <T	.	.	.	.	.	.
NOV	.110 <T	.090 <T	.	.	.160 <T	.080 <T	.160 <T	.140 <T
DEC	.100 <T	.100 <T	.	.	.120 <T	.100 <T	.	.140 <T
CHROMIUM (UG/L)			DET'N LIMIT = 0.100		GUIDELINE = 50. (A1)			
JAN	.430 <T	.430 <T	.570 <T	.450 <T	.	.	.480 <T	.480 <T
FEB	.530 <T	.500 <T	.430 <T	.440 <T	.	.	.480 <T	.470 <T
MAR	.650 <T	.660 <T	.740 <T	.480 <T	.	.	.480 <T	.510 <T
APR	.500 <T	.400 <T	.420 <T	.470 <T	.	.	.480 <T	.470 <T
MAY	.410 <T	.350 <T	.320 <T	.330 <T	.	.	.420 <T	.400 <T
JUN	.220 <T	.370 <T	.230 <T	.200 <T	.	.	.200 <T	.350 <T
JUL	.400 <T	.400 <T	.	.	.	.	.	.370 <T
AUG	.790 <T	3.600	.	.	.	.	.800 <T	.510 <T
SEP	4.400	3.500	.	.	.	.	.870 <T	4.200
OCT	3.600	5.800	.	.	.	.	.	.
NOV	7.300	7.500	.	.	.620 <T	1.300	3.500	1.700
DEC	5.200	4.900	.	.	.940 <T	3.700	.	.280 <T
COPPER (UG/L)			DET'N LIMIT = .100		GUIDELINE = 1000 (A3)			
JAN	18.000	32.000	11.000	4.400	.	.	11.000	2.700
FEB	19.000	13.000	13.000	5.900	.	.	13.000	3.200
MAR	14.000	29.000	39.000	5.500	.	.	13.000	3.100

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DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1988

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM					
SITE	RAW	TREATED	SITE 1		SITE 2		SITE 3	
TYPE			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
APR	16.000	16.000	33.000	5.200	.	.	12.000	3.100
MAY	19.000	17.000	31.000	5.700	.	.	11.000	3.700
JUN	23.000	32.000	31.000	6.400	.	.	13.000	3.500
JUL	21.000	22.000	.	.	.	.	.	2.800
AUG	35.000	35.000	.	.	.	.	13.000	3.900
SEP	30.000	18.000	.	.	.	.	12.000	3.400
OCT	21.000	23.000	.	.	.	.	.	.
NOV	20.700	29.000	.	.	340.000	24.000	17.000	4.600
DEC	20.000	33.000	.	.	180.000	19.000	.	3.400
IRON (UG/L)			DET'N LIMIT = 4.000		GUIDELINE = 300. (A3)			
JAN	15.000 <T	BDL	120.000	100.000	.	.	75.000	78.000
FEB	38.000 <T	6.700 <T	110.000	120.000	.	.	47.000	46.000
MAR	44.000	7.300 <T	140.000	100.000	.	.	40.000	48.000
APR	16.000 <T	5.600 <T	160.000	95.000	.	.	52.000	49.000
MAY	19.000 <T	5.900 <T	170.000	110.000	.	.	46.000 <T	150.000
JUN	25.000 <T	12.000 <T	94.000	46.000 <T	.	.	33.000 <T	34.000 <T
JUL	6.800 <T	BDL	.	.	.	.	.	32.000 <T
AUG	5.400 <T	BDL	.	.	.	.	40.000 <T	44.000 <T
SEP	7.500 <T	BDL	.	.	.	.	44.000 <T	58.000
OCT	9.500 <T	BDL	.	.	.	.	.	.
NOV	67.000	BDL	.	.	BDL	BDL	14.000 <T	17.000 <T
DEC	18.000 <T	BDL	.	.	BDL	BDL	.	11.000 <T
MERCURY (UG/L)			DET'N LIMIT = 0.010		GUIDELINE = 1.000 (A1)			
JAN	BDL	BDL	.	BDL	.	.	.	BDL

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DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1988

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM					
SITE			SITE 1		SITE 2		SITE 3	
TYPE	RAW	TREATED	STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
FEB	BDL	BDL	.	.010	.	.	.	BDL
MAR	BDL	BDL	.	BDL	.	.	.	BDL
APR	BDL	.010	.	.010	.	.	.	BDL
MAY	BDL	BDL	.	BDL	.	.	.	BDL
JUN	BDL	BDL	.	BDL	.	.	.	BDL
JUL	BDL	BDL	.	.	.	.	.	BDL
AUG	BDL	BDL	.	.	.	.	.	BDL
SEP	BDL	.020 <T	.	.	.	.	.	BDL
OCT	.020 <T	BDL	.	.	.	.	.	.
NOV	.020 <T	BDL	.	.	.	.020 <T	.	BDL
DEC	.020 <T	.020 <T	.	.	.	BDL	.	.020 <T
MANGANESE (UG/L)			DET'N LIMIT = .050		GUIDELINE = 50.0 (A3)			
JAN	1.600	.270 <T	3.100	2.900	.	.	1.800	2.000
FEB	2.400	.370 <T	2.500	2.800	.	.	1.400	1.300
MAR	2.700	.480 <T	1.400	2.700	.	.	1.400	1.500
APR	1.300	.350 <T	3.000	3.000	.	.	1.400	1.400
MAY	1.600	.460 <T	4.300	3.600	.	.	1.600	1.800
JUN	1.800	.440 <T	4.000	1.700	.	.	1.200	1.100
JUL	1.100	.440 <T	.	.	.	.	.	1.200
AUG	1.100	.200 <T	.	.	.	.	1.200	1.300
SEP	1.100	.230 <T	.	.	.	.	1.200	1.600
OCT	25.000	.160 <T	.	.	.	.	.	.
NOV	5.300	.320 <T	.	.	.570	.490 <T	1.300	1.200
DEC	2.600	.280 <T	.	.	.460 <T	.350 <T	.	1.300
MOLYBDENUM (UG/L)			DET'N LIMIT = 0.020		GUIDELINE = 500 (H)			

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DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1988

		WATER TREATMENT PLANT			DISTRIBUTION SYSTEM			
	SITE			SITE 1		SITE 2		SITE 3	
	TYPE	RAW	TREATED	STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
JAN		1.000	1.100	1.100	1.100	.	.	1.100	1.000
FEB		1.100	1.200	1.200	1.200	.	.	1.200	1.200
MAR		1.100	1.300	1.600	1.200	.	.	1.300	1.200
APR		1.200	1.200	1.200	1.200	.	.	1.100	1.100
MAY		1.200	1.200	1.300	1.200	.	.	1.300	1.300
JUN		1.300	1.400	1.300	1.400	.	.	1.500	1.300
JUL		1.100	1.200	.	.	.	.	.	1.100
AUG		1.200	1.100	.	.	.	.	1.200	1.200
SEP		1.200	1.200	.	.	.	.	1.100	1.200
OCT		1.200	1.200	.	.	.	.	.	.
NOV		1.070	1.300	.	.	1.300	1.200	1.100	1.200
DEC		1.300	1.200	.	.	1.200	1.300	.	1.400
NICKEL (UG/L)				DET'N LIMIT = 0.100		GUIDELINE = 50. (F3)			
JAN		4.200	4.400	2.000	1.500	.	.	2.200	2.000
FEB		.530 <T	.170 <T	.480 <T	.300 <T	.	.	.890 <T	.410 <T
MAR		1.200 <T	1.200 <T	1.800	1.200 <T	.	.	1.200 <T	1.300 <T
APR		.980 <T	1.100 <T	2.300	1.400 <T	.	.	1.000 <T	1.300 <T
MAY		1.600 <T	1.100 <T	1.900 <T	1.200 <T	.	.	1.300 <T	.920 <T
JUN		.610 <T	BDL	1.200 <T	.430 <T	.	.	1.100 <T	.280 <T
JUL		.650 <T	.760 <T	.	.	.	.	.	.160 <T
AUG		.170 <T	BDL	.	.	.	.	.500 <T	.360 <T
SEP		.990 <T	.930 <T	.	.	.	.	1.300 <T	1.200 <T
OCT		2.200	.500 <T	.	.	.	.	.	.
NOV		.210 <T	.440 <T	.	.	1.500 <T	.530 <T	1.300 <T	.240 <T
DEC		1.600 <T	1.500 <T	.	.	2.700	1.700 <T	.	1.000 <T

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DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1988

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM					
SITE	RAW	TREATED	SITE 1		SITE 2		SITE 3	
TYPE			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
LEAD (UG/L)			DET'N LIMIT = 0.050		GUIDELINE = 50. (A1)			
JAN	.430	.330	.400	.100 <T	.	.	1.400	.200
FEB	.210	.170 <T	.170 <T	.150 <T	.	.	.950	.220
MAR	.270	.310	1.400	.130 <T	.	.	.870	.240
APR	.100 <T	.310	1.300	.110 <T	.	.	1.300	.210
MAY	.240	.370	1.700	.230	.	.	1.400	.430
JUN	.130 <T	.310	.970	.160 <T	.	.	1.100	.160 <T
JUL	.150 <T	.310	.	.	.	.	.	.250
AUG	.240	.500	.	.	.	.	1.200	.330
SEP	.160 <T	.420	.	.	.	.	1.100	.280
OCT	.400	.310	.	.	.	.	.	.
NOV	.540	.560	.	.	9.400	.880	.910	.400
DEC	.280	.380	.	.	5.700	.690	.	.260
ANTIMONY (UG/L)			DET'N LIMIT = .050		GUIDELINE = 146. (D4)			
JAN	.230	.240	.230	.190 <T	.	.	.180 <T	.200
FEB	.250	.230	.230	.230	.	.	.250	.210
MAR	.220	.210	.290	.240	.	.	.250	.210
APR	.250	.290	.330	.230	.	.	.270	.210
MAY	.190 <T	.240	.290	.200 <T	.	.	.240	.280
JUN	.330	.300	.370	.270	.	.	.300	.310
JUL	.220	.230	.	.	.	.	.	.230
AUG	.990	.500	.	.	.	.	.560	.500
SEP	.640	.620	.	.	.	.	.750	1.000
OCT	81.000	.710	.	.	.	.	.	.
NOV	.600	.650	.	.	.620	.520	.600	.550
DEC	.390	.390	.	.	.440	.410	.	.460

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SITE	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM					
			SITE 1		SITE 2		SITE 3	
TYPE	RAW	TREATED	STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
SELENIUM (UG/L)			DET'N LIMIT = 0.200		GUIDELINE = 10. (A1)			
JAN	.380 <T	BDL	BDL	.680 <T	.	.	.680 <T	.310 <T
FEB	.930 <T	1.200 <T	.950 <T	1.100 <T	.	.	1.200 <T	1.200 <T
MAR	.770 <T	1.500 <T	1.700 <T	1.500 <T	.	.	.790 <T	.980 <T
APR	.370 <T	1.600 <T	1.800 <T	.910 <T	.	.	2.000 <T	.480 <T
MAY	1.600 <T	2.600 <T	1.600 <T	1.800 <T	.	.	2.000 <T	1.400 <T
JUN	4.100 <T	8.400 <T	3.400 <T	5.200 <T	.	.	2.700 <T	5.400 <T
JUL	BDL	BDL	.	.	.	.	.	BDL
AUG	BDL	.290 <T	.	.	.	.	.390 <T	BDL
SEP	.390 <T	1.100 <T	.	.	.	.	.920 <T	1.100 <T
OCT	BDL	4.000 <T	.	.	.	.	.	.
NOV	2.310 <T	5.500 <T	.	.	3.400 <T	4.500 <T	4.000 <T	4.000 <T
DEC	.720 <T	2.200 <T	.	.	2.800 <T	2.000 <T	.	1.900 <T
STRONTIUM (UG/L)			DET'N LIMIT = .050		GUIDELINE = 2000.(H)			
JAN	170.000	170.000	170.000	170.000	.	.	170.000	170.000
FEB	190.000	190.000	180.000	190.000	.	.	190.000	190.000
MAR	190.000	190.000	190.000	180.000	.	.	190.000	190.000
APR	180.000	190.000	200.000	190.000	.	.	180.000	180.000
MAY	190.000	190.000	200.000	190.000	.	.	190.000	190.000
JUN	200.000	200.000	210.000	200.000	.	.	210.000	200.000
JUL	180.000	180.000	.	.	.	.	.	170.000
AUG	180.000	170.000	.	.	.	.	170.000	170.000
SEP	180.000	190.000	.	.	.	.	180.000	180.000
OCT	200.000	170.000	.	.	.	.	.	.
NOV	181.000	190.000	.	.	180.000	180.000	180.000	170.000
DEC	180.000	180.000	.	.	180.000	180.000	.	190.000

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SITE	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM					
			SITE 1		SITE 2		SITE 3	
TYPE	RAW	TREATED	STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
TITANIUM (UG/L)			DET'N LIMIT = .050		GUIDELINE = N/A			
JAN	3.800	3.500	4.700	4.500	.	.	4.700	4.400
FEB	5.400	5.200	5.000	5.400	.	.	5.200	5.400
MAR	4.600	4.300	4.100	4.100	.	.	3.900	4.100
APR	3.100	2.800	2.800	3.100	.	.	2.900	3.000
MAY	3.300	3.600	3.700	3.200	.	.	3.700	3.900
JUN	4.600	4.600	4.900	4.600	.	.	4.600	4.800
JUL	1.200 <T	1.200 <T	.	.	.	.	.	.960 <T
AUG	3.400	3.700	.	.	.	.	3.700	3.600
SEP	5.400	5.800	.	.	.	.	5.600	5.400
OCT	7.000	3.500	.	.	.	.	.	.
NOV	6.600	5.200	.	.	4.600	4.700	4.800	5.000
DEC	4.500	3.600	.	.	3.300	3.700	.	3.400
THALLIUM (UG/L)			DET'N LIMIT = .010		GUIDELINE = 13. (D4)			
JAN	.020 <T	BDL	.020 <T	.020 <T	.	.	.010 <T	.020 <T
FEB	.030 <T	BDL	BDL	.010 <T	.	.	.020 <T	.010 <T
MAR	.010 <T	.010 <T	.010 <T	.010 <T	.	.	.010 <T	.020 <T
APR	BDL	BDL	BDL	BDL	.	.	BDL	BDL
MAY	BDL	BDL	BDL	BDL	.	.	BDL	BDL
JUN	BDL	BDL	BDL	BDL	.	.	.020 <T	BDL
JUL	BDL	BDL	.	.	.	.	.	BDL
AUG	BDL	BDL	.	.	.	.	BDL	BDL
SEP	BDL	BDL	.	.	.	.	BDL	BDL
OCT	BDL	BDL	.	.	.	.	.	.
NOV	BDL	BDL	.	.	BDL	BDL	.020 <T	BDL
DEC	.020 <T	BDL	.	.	BDL	BDL	.	.040 <T

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	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM					
SITE	RAW	TREATED	SITE 1		SITE 2		SITE 3	
TYPE			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
URANIUM (UG/L)			DET'N LIMIT = .020		GUIDELINE = 20. (A2)			
JAN	.340	.350	.390	.360	.	.	.340	.330
FEB	.410	.370	.410	.400	.	.	.390	.430
MAR	.330	.310	.360	.340	.	.	.330	.330
APR	.320	.420	.370	.350	.	.	.380	.370
MAY	.340	.380	.350	.370	.	.	.390	.400
JUN	.400	.380	.420	.480	.	.	.490	.490
JUL	.340	.370	.	.	.	.	.	.400
AUG	.320	.360	.	.	.	.	.320	.320
SEP	.310	.360	.	.	.	.	.450	.410
OCT	.390	.350	.	.	.	.	.	.
NOV	.400	.450	.	.	.330	.330	.360	.340
DEC	.350	.340	.	.	.330	.350	.	.430
VANADIUM (UG/L)			DET'N LIMIT = .050		GUIDELINE = 100 (H)			
JAN	.370 <T	.360 <T	.260 <T	.240 <T	.	.	.320 <T	.290 <T
FEB	.260 <T	.200 <T	.160 <T	.180 <T	.	.	.200 <T	.210 <T
MAR	.270 <T	.310 <T	.300 <T	.170 <T	.	.	.230 <T	.210 <T
APR	.250 <T	.190 <T	.190 <T	.230 <T	.	.	.190 <T	.220 <T
MAY	.260 <T	.230 <T	.270 <T	.200 <T	.	.	.290 <T	.400 <T
JUN	.270 <T	.180 <T	.220 <T	.200 <T	.	.	.210 <T	.190 <T
JUL	.340 <T	.320 <T	.	.	.	.	.	.270 <T
AUG	.200 <T	.230 <T	.	.	.	.	.200 <T	.170 <T
SEP	.250 <T	.240 <T	.	.	.	.	.250 <T	.250 <T
OCT	.340 <T	.300 <T	.	.	.	.	.	.
NOV	.390 <T	.340 <T	.	.	.320 <T	.250 <T	.270 <T	.250 <T
DEC	.350 <T	.320 <T	.	.	.360 <T	.310 <T	.	.290 <T

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DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1988

		WATER TREATMENT PLANT				DISTRIBUTION SYSTEM			
	SITE TYPE RAW	TREATED	SITE 1		SITE 2		SITE 3	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
ZINC (UG/L)			DET'N LIMIT = .001		GUIDELINE = 5000. (A3)			
JAN	1.400	1.700	2.800	1.400	.	.	11.000	1.900
FEB	1.200	1.500	1.400	1.500	.	.	6.400	1.800
MAR	1.500	1.800	4.600	1.200	.	.	8.400	2.000
APR	1.500	1.700	4.200	1.200	.	.	7.200	2.100
MAY	2.000	2.400	4.600	1.800	.	.	7.000	2.800
JUN	1.800	2.400	4.600	2.200	.	.	7.300	2.100
JUL	1.700	2.100	.	.	.	.	.	2.000
AUG	1.800	2.200	.	.	.	.	7.300	2.000
SEP	1.500	2.500	.	.	.	.	8.300	1.800
OCT	1.200	1.900	.	.	.	.	.	.
NOV	2.400	2.400	.	.	33.000	2.300	8.300	2.500
DEC	1.500	1.700	.	.	20.000	2.300	.	1.500

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1988

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM					
SITE	RAW	TREATED	SITE 1		SITE 2		SITE 3	
TYPE			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
PESTICIDES & PCB								
ALPHA BHC (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = 700 (G)			
JAN	BDL	4.000 <T	.	2.000 <T	.	.	.	BDL
FEB	BDL	BDL	.	BDL	.	.	.	BDL
MAR	BDL	5.000 <T	.	2.000 <T	.	.	.	2.000 <T
APR	3.000 <T	1.000 <T	.	3.000 <T	.	.	.	1.000 <T
MAY	2.000 <T	1.000 <T	.	2.000 <T	.	.	.	2.000 <T
JUN	BDL	BDL	.	BDL	.	.	.	BDL
JUL	2.000 <T	2.000 <T	.	.	.	.	.	3.000 <T
AUG	1.000 <T	1.000 <T	.	.	.	.	.	2.000 <T
SEP	.	2.000 <T	.	.	.	.	.	BDL
OCT	2.000 <T	2.000 <T	.	.	.	.	.	.
NOV	2.000 <T	3.000 <T	.	.	.	2.000 <T	.	2.000 <T
DEC	2.000 <T	2.000 <T	.	.	.	2.000 <T	.	2.000 <T
LINDANE (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = 4000 (A1)			
JAN	BDL	BDL	.	BDL	.	.	.	BDL
FEB	BDL	BDL	.	BDL	.	.	.	BDL
MAR	BDL	1.000 <T	.	BDL	.	.	.	BDL
APR	BDL	BDL	.	BDL	.	.	.	BDL
MAY	BDL	BDL	.	BDL	.	.	.	BDL
JUN	BDL	BDL	.	BDL	.	.	.	BDL
JUL	BDL	BDL	.	.	.	.	.	BDL
AUG	BDL	BDL	.	.	.	.	.	BDL
SEP	.	BDL	.	.	.	.	.	BDL
OCT	BDL	BDL	.	.	.	.	.	.
NOV	BDL	BDL	.	.	.	BDL	.	BDL

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1988

	SITE TYPE	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM					
		RAW	TREATED	SITE 1		SITE 2		SITE 3	
				STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
DEC		BDL	BDL	.	.	.	BDL	.	BDL

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1988

		WATER TREATMENT PLANT		DISTRIBUTION SYSTEM					
	SITE	RAW	TREATED	SITE 1		SITE 2		SITE 3	
	TYPE			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
PHENOLICS (UG/L	PHENOLICS)			DET'N LIMIT = 0.2		GUIDELINE = 2.00 (A3)			
JAN		.600 <T	.600 <T	.	.	.	.	.	.
FEB		.600 <T	.600 <T	.	.	.	.	.	.
MAR		.200 <T	.200 <T	.	.	.	.	.	.
APR		.200 <T	.200 <T	.	.	.	.	.	.
MAY		.600 <T	.600 <T	.	.	.	.	.	.
JUN		1.000 <T	1.000 <T	.	.	.	.	.	.
JUL		.400 <T	4.800	.	.	.	.	.	.
AUG		1.600	2.000	.	.	.	.	.	.
SEP		1.000 <T	1.000 <T	.	.	.	.	.	.
OCT		.600 <T	.600 <T	.	.	.	.	.	.
NOV		.400 <T	1.400	.	.	.	.	.	.
DEC		.600 <T	.600 <T	.	.	.	.	.	.

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1988

		WATER TREATMENT PLANT		DISTRIBUTION SYSTEM					
	SITE			SITE 1		SITE 2		SITE 3	
	TYPE	RAW	TREATED	STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
	VOLATILES								
BENZENE (UG/L)			DET'N LIMIT = .050		GUIDELINE = 5.0 (81)				
JAN		BDL	BDL	.	BDL	.	.	.	BDL
MAR		BDL	BDL	.	BDL	.	.	.	IBT
APR		BDL	BDL	.	.050 <T	.	.	.	BDL
MAY		BDL	BDL	.	BDL	.	.	.	BDL
JUN		BDL	BDL	.	BDL	.	.	.	BDL
JUL		BDL	BDL	.	.	.	.	.	BDL
AUG		BDL	BDL	.	.	.	.	.	BDL
SEP		BDL	BDL	.	.	.	.	.	BDL
OCT		BDL	BDL	.	.	.	.	.	.
NOV		BDL	BDL	.	.	.	BDL	.	BDL
DEC		BDL	BDL	.	.	.	BDL	.	BDL
TOLUENE (UG/L)			DET'N LIMIT = .050		GUIDELINE = 24.0 (84)				
JAN		BDL	BDL	.	BDL	.	.	.	.050 UCS
MAR		BDL	.050 UCS	.	.100 UCS	.	.	.	IBT
APR		BDL	.050 UCS	.	BDL	.	.	.	BDL
MAY		BDL	BDL	.	BDL	.	.	.	.200 UCS
JUN		BDL	.100 <T	.	.050 <T	.	.	.	BDL
JUL		BDL	.050 <T	.	.	.	.	.	.050 <T
AUG		BDL	BDL	.	.	.	.	.	BDL
SEP		BDL	BDL	.	.	.	.	.	.100 <T
OCT		BDL	BDL	.	.	.	.	.	.
NOV		BDL	BDL	.	.	.	BDL	.	BDL
DEC		BDL	.050 <T	.	.	.	.050 <T	.	BDL

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1988

SITE	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM					
			SITE 1		SITE 2		SITE 3	
TYPE	RAW	TREATED	STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
ETHYLBENZENE (UG/L)		DET'N LIMIT = .050		GUIDELINE = 2.4 (84)				
JAN	BDL	BDL	.	BDL	.	.	.	.050 <T
MAR	BDL	.100 <T	.	.100 <T	.	.	.	!BT
APR	BDL	.150 <T	.	.100 <T	.	.	.	BDL
MAY	.100 <T	.100 <T	.	.100 <T	.	.	.	BDL
JUN	.400 <T	.100 <T	.	.050 <T	.	.	.	.100 <T
JUL	BDL	.200 <T	.	.	.	.	.	BDL
AUG	.100 <T	.100 <T	.	.	.	.	.	.050 <T
SEP	BDL	.050 <T	.	.	.	.	.	.050 <T
OCT	.150 <T	.100 <T	.	.	.	.	.	.
NOV	BDL	.050 <T	.	.	.	BDL	.	.050 <T
DEC	BDL	.100 <T	.	.	.	.100 <T	.	.050 <T
P-XYLENE (UG/L)		DET'N LIMIT = .100		GUIDELINE = 300 (84)				
JAN	BDL	BDL	.	BDL	.	.	.	BDL
MAR	BDL	.100 <T	.	.200 <T	.	.	.	!BT
APR	BDL	BDL	.	BDL	.	.	.	BDL
MAY	BDL	BDL	.	.	.	.	.	BDL
JUN	BDL	BDL	.	BDL	.	.	.	BDL
JUL	BDL	BDL	.	.	.	.	.	BDL
AUG	BDL	BDL	.	.	.	.	.	BDL
SEP	BDL	BDL	.	.	.	.	.	BDL
OCT	BDL	BDL	.	.	.	.	.	.
NOV	BDL	BDL	.	.	.	BDL	.	BDL
DEC	BDL	BDL	.	.	.	BDL	.	BDL
M-XYLENE (UG/L)		DET'N LIMIT = .100		GUIDELINE = 300 (84)				

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1988

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM					
SITE TYPE	RAW	TREATED	SITE 1		SITE 2		SITE 3	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
JAN	BDL	BDL	.	BDL	.	.	.	BDL
MAR	BDL	.000 RNP	.	.000 RNP	.	.	.	1BT
APR	BDL	BDL	.	BDL	.	.	.	BDL
MAY	BDL	BDL	.	.200 <T	.	.	.	BDL
JUN	.200 <T	BDL	.	BDL	.	.	.	BDL
JUL	BDL	BDL	.	.	.	.	.	BDL
AUG	.100 <T	BDL	.	.	.	.	.	BDL
SEP	BDL	BDL	.	.	.	.	.	BDL
OCT	.100 <T	BDL	.	.	.	.	.	.
NOV	BDL	BDL	.	.	.	BDL	.	BDL
DEC	BDL	BDL	.	.	.	BDL	.	BDL
O-XYLENE (UG/L)		DET'N LIMIT = .050		GUIDELINE = 300 (84)				
JAN	BDL	BDL	.	BDL	.	.	.	BDL
MAR	BDL	.050 <T	.	.150 <T	.	.	.	1BT
APR	BDL	BDL	.	.050 <T	.	.	.	BDL
MAY	BDL	BDL	.	.150 <T	.	.	.	BDL
JUN	BDL	BDL	.	BDL	.	.	.	BDL
JUL	BDL	BDL	.	.	.	.	.	BDL
AUG	BDL	BDL	.	.	.	.	.	BDL
SEP	BDL	BDL	.	.	.	.	.	BDL
OCT	BDL	BDL	.	.	.	.	.	.
NOV	BDL	BDL	.	.	.	BDL	.	BDL
DEC	BDL	BDL	.	.	.	BDL	.	BDL
STYRENE (UG/L)		DET'N LIMIT = .050		GUIDELINE = 46.5 (D2)				
OCT	1.050 UCS	.500 UCS	.	.	.	.	.	.

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1988

SITE TYPE	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM					
	RAW	TREATED	SITE 1		SITE 2		SITE 3	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
NOV	.450 <T	.050 <T	.	.	.	.050 <T	.	.050 <T
DEC	BDL	.250 <T	.	.	.	.250 <T	.	.200 <T
METHYLENE CHLORIDE (UG/L)		DET'N LIMIT = .500		GUIDELINE = 1750 (D3)				
JAN	BDL	BDL	.	BDL	.	.	.	BDL
MAR	BDL	BDL	.	3.000 <T	.	.	.	IBT
APR	BDL	BDL	.	BDL	.	.	.	BDL
MAY	BDL	BDL	.	BDL	.	.	.	BDL
JUN	BDL	BDL	.	BDL	.	.	.	BDL
JUL	BDL	BDL	.	.	.	.	.	BDL
AUG	BDL	BDL	.	.	.	.	.	BDL
SEP	BDL	BDL	.	.	.	.	.	BDL
OCT	BDL	BDL	.	.	.	.	.	.
NOV	BDL	BDL	.	.	.	BDL	.	BDL
DEC	BDL	BDL	.	.	.	BDL	.	BDL
CHLOROFORM (UG/L)		DET'N LIMIT = .100		GUIDELINE = 350 (A1+)				
JAN	2.300	7.800	.	5.100	.	.	.	7.400
MAR	BDL	8.400	.	7.500	.	.	.	IBT
APR	BDL	6.100	.	6.500	.	.	.	7.200
MAY	BDL	7.200	.	7.600	.	.	.	5.500
JUN	BDL	5.400	.	5.500	.	.	.	5.000
JUL	BDL	10.000	.	.	.	.	.	9.300
AUG	.900 <T	11.600	.	.	.	.	.	8.800
SEP	.300 <T	8.600	.	.	.	.	.	7.300
OCT	1.100	7.500	.	.	.	.	.	.

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1988

		WATER TREATMENT PLANT			DISTRIBUTION SYSTEM			
	SITE		SITE 1		SITE 2		SITE 3	
	RAW TYPE	TREATED	STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
NOV	1.000 <T	15.200	.	.	.	17.900	.	13.300
DEC	.100 <T	6.300	.	.	.	6.300	.	6.900
DICHLOROBROMOMETHANE (UG/L)			DET'N LIMIT = .050		GUIDELINE = 350 (A1+)			
JAN	2.300	7.300	.	5.850	.	.	.	7.750
MAR	BDL	7.600	.	7.400	.	.	.	IBT
APR	BDL	5.900	.	5.000	.	.	.	6.300
MAY	BDL	6.650	.	7.050	.	.	.	5.400
JUN	BDL	6.050	.	5.800	.	.	.	5.350
JUL	BDL	7.250	.	.	.	.	.	8.250
AUG	.250 <T	9.250	.	.	.	.	.	7.800
SEP	BDL	8.250	.	.	.	.	.	9.100
OCT	.150 <T	7.050	.	.	.	.	.	.
NOV	BDL	11.900	.	.	.	12.750	.	10.000
DEC	BDL	5.750	.	.	.	6.200	.	6.700
CHLORODIBROMOMETHANE (UG/L)			DET'N LIMIT = .100		GUIDELINE = 350 (A1+)			
JAN	1.500	4.600	.	4.300	.	.	.	5.200
MAR	BDL	5.700	.	6.500	.	.	.	IBT
APR	BDL	3.800	.	3.600	.	.	.	3.000
MAY	BDL	3.400	.	4.000	.	.	.	3.000
JUN	BDL	5.600	.	3.500	.	.	.	3.500
JUL	BDL	3.100	.	.	.	.	.	3.700
AUG	.200 <T	5.200	.	.	.	.	.	4.100
SEP	BDL	4.600	.	.	.	.	.	4.000
OCT	BDL	5.000	.	.	.	.	.	.

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1988

SITE TYPE	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM					
	RAW	TREATED	SITE 1		SITE 2		SITE 3	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
NOV	BDL	6.500	.	.	.	6.700	.	6.600
DEC	BDL	3.400	.	.	.	3.800	.	4.100
T-CHLOROETHYLENE (UG/L)			DET'N LIMIT = .050		GUIDELINE = 10.0 (C2)			
JAN	BDL	BDL	.	BDL	.	.	.	BDL
MAR	BDL	BDL	.	BDL	.	.	.	IBT
APR	BDL	BDL	.	BDL	.	.	.	BDL
MAY	BDL	.	.	BDL	.	.	.	BDL
JUN	BDL	BDL	.	BDL	.	.	.	BDL
JUL	BDL	BDL	.	.	.	.	.	BDL
AUG	BDL	BDL	.	.	.	.	.	BDL
SEP	BDL	BDL	.	.	.	.	.	BDL
OCT	BDL	BDL	.	.	.	.	.	.
NOV	BDL	.050 <T	.	.	.	BDL	.	BDL
DEC	BDL	BDL	.	.	.	BDL	.	BDL
BROMOFORM (UG/L)			DET'N LIMIT = .200		GUIDELINE = 350 (A1+)			
JAN	BDL	.600 <T	.	.400 <T	.	.	.	.600 <T
MAR	BDL	.400 <T	.	.600 <T	.	.	.	IBT
APR	BDL	.400 <T	.	.400 <T	.	.	.	.400 <T
MAY	BDL	.400 <T	.	.400 <T	.	.	.	.400 <T
JUN	BDL	.400 <T	.	.400 <T	.	.	.	.200 <T
JUL	BDL	.200 <T	.	.	.	.	.	.400 <T
AUG	BDL	.600 <T	.	.	.	.	.	.600 <T
SEP	BDL	.600 <T	.	.	.	.	.	.200 <T
OCT	BDL	.600 <T	.	.	.	.	.	.

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM METRO TORONTO (EASTERLY WTP) 1988

SITE TYPE	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM					
	RAW	TREATED	SITE 1		SITE 2		SITE 3	
			STANDING	FREE FLOW	STANDING	FREE FLOW	STANDING	FREE FLOW
NOV	BDL	1.000 <T	.	.	.	.800 <T	.	.800 <T
DEC	BDL	.600 <T	.	.	.	.600 <T	.	.600 <T
TOTL TRIHALOMETHANES (UG/L)		DET'N LIMIT = .500		GUIDELINE = 350 (A1)				
JAN	6.100	20.300	.	15.650	.	.	.	20.950
MAR	BDL	22.100	.	22.000	.	.	.	IBT
APR	BDL	16.200	.	15.500	.	.	.	16.900
MAY	BDL	17.650	.	19.050	.	.	.	14.300
JUN	BDL	17.450	.	15.200	.	.	.	14.050
JUL	BDL	20.550	.	.	.	.	.	21.650
AUG	1.350 <T	26.650	.	.	.	.	.	21.300
SEP	BDL	22.050	.	.	.	.	.	20.600
OCT	1.250 <T	20.150	.	.	.	.	.	.
NOV	1.000 <T	34.600	.	.	.	38.150	.	30.700
DEC	BDL	16.050	.	.	.	16.900	.	18.300

Table 6

SCAN/PARAMETER	UNIT	DETECTION LIMIT	GUIDELINE
BACTERIOLOGICAL			
STANDARD PLATE COUNT MEMBRANE FILTRATION	CT/ML	0	500/ML(A1)
P/A BOTTLE		0	0 (A1*)
TOTAL COLIFORM MEMBRANE FILTRATION	CT/100ML	0	5/100mL(A1)
TOTAL COLIFORM BACKGROUND MF	CT/100ML	0	N/A
CHLOROAROMATICS			
HEXACHLOROBUTADIENE	NG/L	1.000	450. (D4)
1,2,3-TRICHLOROBENZENE	NG/L	5.000	10000 (I)
1,2,3,4-TETRACHLOROBENZENE	NG/L	1.000	10000 (I)
1,2,3,5-TETRACHLOROBENZENE	NG/L	1.000	10000 (I)
1,2,4-TRICHLOROBENZENE	NG/L	5.000	10000 (I)
1,2,4,5-TETRACHLOROBENZENE	NG/L	1.000	38000 (D4)
1,3,5-TRICHLOROBENZENE	NG/L	5.000	10000 (D4)
HEXACHLOROBENZENE	NG/L	1.0	10. (C1)
HEXACHLOROETHANE	NG/L	1.000	1900. (D4)
OCTACHLOROSTYRENE	NG/L	1.000	N/A
PENTACHLOROBENZENE	NG/L	1.000	74000 (D4)
2,3,6-TRICHLOROTOLUENE	NG/L	5.000	N/A
2,4,5-TRICHLOROTOLUENE	NG/L	5.000	N/A
2,6,A-TRICHLOROTOLUENE	NG/L	5.000	N/A
CHLOROPHENOLS			
2,3,4-TRICHLOROPHENOL	NG/L	50.	N/A
2,3,4,5-TETRACHLOROPHENOL	NG/L	50.	N/A
2,3,5,6-TETRACHLOROPHENOL	NG/L	50.	N/A
2,4,5-TRICHLOROPHENOL	NG/L	50.	2600000 (D4)
2,4,6-TRICHLOROPHENOL	NG/L	50.	5000. (B1)
PENTACHLOROPHENOL	NG/L	50.	60000. (B1)
CHEMISTRY (FLD)			
FIELD COMBINED CHLORINE RESIDUAL	MG/L	N/A	N/A
FIELD FREE CHLORINE RESIDUAL	MG/L	N/A	N/A
FIELD TOTAL CHLORINE RESIDUAL	MG/L	N/A	N/A
FIELD PH	DMSNLESS	N/A	6.5-8.5(A4)
FIELD TEMPERATURE	°C	N/A	<15 °C(A1)
FIELD TURBIDITY	FTU	N/A	1.0 (A1)
CHEMISTRY (LAB)			
ALKALINITY	MG/L	.200	30-500(A4)
CALCIUM	MG/L	.100	100. (F2)
CYANIDE	MG/L	.001	.20(A1)
CHLORIDE	MG/L	.200	250. (A3)
COLOUR	TCU	.5	5.0 (A3)
CONDUCTIVITY	UMHO/CM	1.	400. (F2)
FLUORIDE	MG/L	.01	2.4 (A1)
HARDNESS	MG/L	.50	80-100(A4)
MAGNESIUM	MG/L	.05	30. (F2)

SCAN/PARAMETER	UNIT	DETECTION LIMIT	GUIDELINE
NITRITE	MG/L	.001	1.0 (A1)
TOTAL NITRATES	MG/L	.02	10. (A1)
NITROGEN TOTAL KJELDAHL	MG/L	.02	N/A
PH	DMSNLESS	N/A	6.5-8.5(A4)
PHOSPHORUS FIL REACT	MG/L	.0005	N/A
PHOSPHORUS TOTAL	MG/L	.002	.40(F2)
TOTAL SOLIDS	MG/L	1.	500. (A3)
TURBIDITY	FTU	.02	1.0 (A1)
METALS			
ALUMINUM	UG/L	.050	100. (A4)
ANTIMONY	UG/L	.050	146. (D4)
ARSENIC	UG/L	.050	50. (A1)
BARIUM	UG/L	.020	1000. (A1)
BORON	UG/L	.200	5000. (A1)
BERYLLIUM	UG/L	.010	0.20 (H)
CADMIUM	UG/L	.050	5.0 (A1)
COBALT	UG/L	.020	1000. (H)
CHROMIUM	UG/L	.100	50. (A1)
COPPER	UG/L	.100	1000. (A3)
IRON	UG/L	5.0	300. (A3)
MERCURY	UG/L	.01	1.0 (A1)
MANGANESE	UG/L	.050	50. (A3)
MOLYBDENUM	UG/L	.020	500. (H)
NICKEL	UG/L	.100	50. (F3)
LEAD	UG/L	.020	50. (A1)
SELENIUM	UG/L	.200	10. (A1)
SILVER	UG/L	.020	50. (A1)
STRONTIUM	UG/L	.100	2000. (H)
THALLIUM	UG/L	.010	13. (D4)
TITANIUM	UG/L	.100	N/A
URANIUM	UG/L	.020	20. (A2)
VANADIUM	UG/L	.020	100. (H)
ZINC	UG/L	.020	5000. (A3)
PHENOLICS			
PHENOLICS (UNFILTERED REACTIVE)	UG/L	.2	2.0 (A3)
PESTICIDES & PCB			
ALDRIN	NG/L	1.0	700. (A1)
AMETRINE	NG/L	50.	300000. (D3)
ATRAZINE	NG/L	50.	60000. (B3)
ALPHA HEXACHLOROCYCLOHEXANE (BHC)	NG/L	1.0	700. (G)
BETA HEXACHLOROCYCLOHEXANE (BHC)	NG/L	1.0	300. (G)
GAMMA HEXACHLOROCYCLOHEXANE(LINDANE)	NG/L	1.0	4000. (A1)
ALPHA CHLORDANE	NG/L	2.0	7000. (A1)
GAMMA CHLORDANE	NG/L	2.0	7000. (A1)
BLADEX	NG/L	100.	10000. (B3)
DIELDRIN	NG/L	2.0	700. (A1)
METHOXYCHLOR	NG/L	5.0	100000. (A1)
ENDOSULFAN 1 (THIODAN I)	NG/L	2.0	74000. (D4)
ENDOSULFAN 2 (THIODAN II)	NG/L	4.0	74000. (D4)
ENDRIN	NG/L	4.0	200. (A1)
ENDOSULFAN SULPHATE(THIODAN SULPHATE)	NG/L	4.0	N/A
HEPTACHLOR EPOXIDE	NG/L	1.0	3000. (A1)

SCAN/PARAMETER	UNIT	DETECTION LIMIT	GUIDELINE	
HEPTACHLOR	NG/L	1.0	3000.	(A1)
METOLACHLOR	NG/L	500.	50000.	(B3)
MIREX	NG/L	5.0	N/A	
OXYCHLORDANE	NG/L	2.0	N/A	
O,P-DDT	NG/L	5.0	30000.	(A1)
PCB	NG/L	20.0	3000.	(A2)
O,P-DDD	NG/L	5.0	N/A	
PPDDE	NG/L	1.0	30000.	(A1)
PPDDT	NG/L	5.0	30000.	(A1)
ATRATONE	NG/L	50.	N/A	
ALACHLOR	NG/L	500.	35000.	(D2)
PROMETONE	NG/L	50.	52500.	(D3)
PROPAZINE	NG/L	50.	16000.	(D2)
PROMETRYNE	NG/L	50.	1000.	(B3)
SENCOR (METRIBUZIN)	NG/L	100.	80000.	(B2)
SIMAZINE	NG/L	50.	10000.	(B3)
POLYAROMATIC HYDROCARBONS				
PHENANTHRENE	NG/L	10.0	N/A	
ANTHRACENE	NG/L	1.0	N/A	
FLUORANTHENE	NG/L	20.0	42000.	(D4)
PYRENE	NG/L	20.0	N/A	
BENZO(A)ANTHRACENE	NG/L	20.0	N/A	
CHRYSENE	NG/L	50.0	N/A	
DIMETHYL BENZO(A)ANTHRACENE	NG/L	5.0	N/A	
BENZO(E)PYRENE	NG/L	50.0	N/A	
BENZO(B)FLUORANTHENE	NG/L	10.0	N/A	
PERYLENE	NG/L	10.0	N/A	
BENZO(K)FLUORANTHENE	NG/L	1.0	N/A	
BENZO(A)PYRENE	NG/L	5.0	10.	(B1)
BENZO(G,H,I)PERYLENE	NG/L	20.0	N/A	
DIBENZO(A,H)ANTHRACENE	NG/L	10.0	N/A	
INDENO(1,2,3-C,D)PYRENE	NG/L	20.0	N/A	
BENZO(B)CHRYSENE	NG/L	2.0	N/A	
CORONENE	NG/L	10.0	N/A	
SPECIFIC PESTICIDES				
TOXAPHENE	NG/L	N/A	5000.	(A1)
2,4,5-TRICHLOROBUTYRIC ACID (2,4,5-T)	NG/L	50.	280000.	(B1)
2,4-DICHLOROBUTYRIC ACID (2,4-D)	NG/L	100.	100000.	(A1)
2,4-DICHLORORPHENOXYBUTYRIC ACID	NG/L	200.	18000.	(B3)
2,4-D PROPIONIC ACID	NG/L	100.	N/A	
DICAMBA	NG/L	100.	87000.	(B3)
PICHLORAM	NG/L	100.	2450000.	(D3)
SILVEX (2,4,5-TP)	NG/L	50.	10000.	(A1)
DIAZINON	NG/L	20.	14000.	(A1)
DICHLOROVOS	NG/L	20.	N/A	
DURSBAN	NG/L	20.	N/A	
ETHION	NG/L	20.	35000.	(G)
GUTHION	NG/L	N/A	N/A	
MALATHION	NG/L	20.	160000.	(G)
MEVINPHOS	NG/L	20.	N/A	
METHYL PARATHION	NG/L	50.	7000.	(B3)
METHYLTRITHION	NG/L	20.	N/A	
PARATHION	NG/L	20.	35000.	(B1)

SCAN/PARAMETER	UNIT	DETECTION LIMIT	GUIDELINE
PHORATE (THIMET)	NG/L	20.	35. (D2)
RELDAN	NG/L	20.	N/A
RONNEL	NG/L	20.	N/A
AMINOCARB	NG/L	N/A	N/A
BENOMYL	NG/L	N/A	N/A
BUX (METALKAMATE)	NG/L	2000.	N/A
CARBOFURAN	NG/L	2000.	18000. (D3)
CICP (CHLORPROPHAM)	NG/L	2000.	350000. (G)
DIALLATE	NG/L	2000.	30000. (H)
EPTAM	NG/L	2000.	N/A
IPC	NG/L	2000.	N/A
PROPOXUR (BAYGON)	NG/L	2000.	90000. (G)
SEVIN (CARBARYL)	NG/L	200.	70000. (A1)
SUTAN (BUTYLATE)	NG/L	2000.	245000. (D3)
VOLATILES			
BENZENE	UG/L	.050	5.0 (B1)
TOLUENE	UG/L	.050	24.0 (B4)
ETHYLBENZENE	UG/L	.050	2.4 (B4)
PARA-XYLENE	UG/L	.100	300. (B4)
META-XYLENE	UG/L	.100	300. (B4)
ORTHO-XYLENE	UG/L	.050	300. (B4)
1,1-DICHLOROETHYLENE	UG/L	.100	7.0 (D1)
ETHLYENE DIBROMIDE	UG/L	.05	50. (G)
METHYLENE CHLORIDE	UG/L	.500	1750. (D3)
TRANS-1,2-DICHLOROETHYLENE	UG/L	.100	350. (D3)
1,1-DICHLOROETHANE	UG/L	.100	N/A
CHLOROFORM	UG/L	.100	350. (A1+)
1,1,1-TRICHLOROETHANE	UG/L	.020	200. (D1)
1,2-DICHLOROETHANE	UG/L	.050	5.0 (D1)
CARBON TETRACHLORIDE	UG/L	.200	5.0 (D1)
1,2-DICHLOROPROPANE	UG/L	.050	10.0 (G)
TRICHLOROETHYLENE	UG/L	.100	5.0 (D1)
DICHLOROBROMOMETHANE	UG/L	.050	350. (A1+)
1,1,2-TRICHLOROETHANE	UG/L	.050	.60(D4)
CHLORODIBROMOMETHANE	UG/L	.100	350. (A1+)
TETRACHLOROETHYLENE	UG/L	.050	10.0 (C2)
BROMOFORM	UG/L	.200	350. (A1+)
1,1,2,2-TETRACHLOROETHANE	UG/L	.050	0.17(D4)
CHLOROBENZENE	UG/L	.100	1510. (D3)
1,4-DICHLOROBENZENE	UG/L	.100	5.0 (B1)
1,3-DICHLOROBENZENE	UG/L	.100	130. (G)
1,2-DICHLOROBENZENE	UG/L	.050	200. (B1)
TRIFLUOROCHLOROTOLUENE	UG/L	.100	N/A
TOTAL TRIHALOMETHANES	UG/L	.500	350. (A1)
STYRENE	UG/L	.05	46.5 (D2)